

SEQUENCE LISTING

<110> Xu, Jiangchun
 Dillon, Davin C.
 Mitcham, Jennifer L.
 Harlocker, Susan L.
 Jiang, Yuqi
 Reed, Steven G.
 Kalos, Michael D.
 Fanger, Gary R.
 Retter, Marc W.
 Stolk, John A.
 Day, Craig H.
 Vedvick, Thomas S.
 Carter, Darrick
 Li, Samuel
 Wang, Aijun
 Skeiky, Yasir A.W.
 Helper, William
 Henderson, Robert A.

<120> COMPOSITIONS AND METHODS FOR THERAPY AND
 DIAGNOSIS OF PROSTATE CANCER

<130> 210121.42715C15

<140> US

<141> 2000-06-13

<160> 814

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 1

tttttttttt	tttttcacag	tataacagct	ctttatttct	gtgagttcta	ctaggaaatc	60
atcaaattctg	agggttgtct	ggaggacttc	aatacacctc	cccccatagt	gaatcagctt	120
ccaggggggtc	cagtccectct	ccttacttca	tccccatccc	atgccaaagg	aagaccctcc	180
ctccttggtc	cacagccttc	tctaggcttc	ccagtgcctc	caggacagag	tgggttatgt	240
tttcagctcc	atccttgctg	tgagtgtctg	gtgcgttggtg	cctccagctt	ctgctcagtg	300
cttcattggac	agtgtccagc	acatgtcact	ctccactctc	tcagtgtgga	tccactagtt	360
ctagagcggc	cgccaccgcg	gtggagctcc	agcttttggt	cccttttagtg	aggggttaatt	420

gcgcgcttg	cgtaatcatg	gtcataactg	tttctgtgt	gaaattgtta	tccgctcaca	480
attccacaca	acatacgagc	cggaagcata	aagtgtaaag	cctggggtgc	ctaatgagtg	540
anctaactca	cattaattgc	gttgcgctca	ctgnccgctt	tccagtcngg	aaaactgtcg	600
tgccagctgc	attaatgaat	cggccaacgc	ncggggaaaa	gcggtttgcg	ttttgggggc	660
tcttcgctt	ctcgtcact	nantcctgcg	ctcggtcntt	cggtgcggg	gaacggatc	720
actcctcaaa	ggnggtatta	cggttatccn	naaatcnggg	gatacccngg	aaaaaanttt	780
aacaaaaggg	cancaaaggg	cngaaacgta	aaaa			814

<210> 2

<211> 816

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 2

acagaaatgt	tggatggtgg	agcacctttc	tatacgactt	acaggacagc	agatggggaa	60
ttcatggctg	ttggagcaat	agaacccag	ttctacgagc	tgtgatcaa	aggacttggg	120
ctaaagtctg	atgaacttcc	caatcagatg	agcatggatg	attggccaga	aatgaagaag	180
aagtttgcag	atgtatttgc	aaagaagacg	aaggcagagt	ggtgtcaaat	ctttgacggc	240
acagatgctt	gtgtgactcc	ggttctgact	tttgaggagg	ttgttcatca	tgatcacaa	300
aaggaacggg	gctcgtttat	caccagttag	gagcaggacg	tgagcccccg	ccctgcacct	360
ctgctgttaa	acacccagc	catcccttct	ttcaaaaagg	atccactagt	tctagaagcg	420
gcccaccg	cgggtggagct	ccagcttttg	ttccctttag	tgagggttaa	ttgcgcgctt	480
ggcgtaatca	tggatcatagc	tgtttctgt	gtgaaattgt	tatccgctca	caattcccc	540
aacatacgag	cgggaacata	aagtgttaag	cctggggtgc	ctaatgantg	agctaactcn	600
cattaattgc	gttgcgctca	ctgcccgtt	tccagtcggg	aaaactgtcg	tgccactgcn	660
ttantgaatc	ngccaccccc	cgggaaaagg	cgggtgcntt	ttgggcctct	tccgctttcc	720
tcgctcattg	atcctngcnc	ccggtcttcg	gctgcggnga	acggttcact	cctcaaaggc	780
ggtntnccgg	ttatccccaa	acnggggata	ccnga			816

<210> 3

<211> 773

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(773)

<223> n = A,T,C or G

<400> 3

cttttgaaag	aagggtatggc	tggggtgttt	aacagcagag	gtgcagggcg	ggggctcacg	60
tctgtctcct	cactgggtgat	aaacgagccc	cgttccttgt	tgtgatcatg	atgaacaacc	120
tctcaaaag	tcagaaccgg	agtcacacag	gcatctgtgc	cgtcaaagat	ttgacaccac	180
tctgccttcg	tcttctttgc	aaatacatct	gcaaacttct	tcttcatttc	tggccaatca	240
tccatgctca	tctgattggg	aagttcatca	gactttagtc	canntccttt	gatcagcagc	300
tcgtagaact	ggggttctat	tgctccaaca	gccatgaatt	ccccatctgc	tgtcctgtaa	360

```

gtcgtataga aaggtgctcc accatccaac atgtttctgtc ctcgaggggg ggcccgggtac 420
ccaattcgcc ctatantgag tegtattacg cgcgctcact ggccgctcgtt ttacaacgtc 480
gtgactggga aaacctggg cgttaccaac ttaatcgct tgcagcacat ccccttttcg 540
ccagctgggc gtaatanca aaaggccgc accgatcgcc ctccaacag ttgcgcacct 600
gaatgggnaa atgggacccc cctgttaccg cgcattnaac ccccgnggg tttngttgtt 660
acccccacnt nnaccgctta cactttgcc ggcgcttanc gcccgtccc tttcnccttt 720
cttcccttcc tttcncncn ctttcccccg ggggttcccc cntcaaacc cna 773

```

```

<210> 4
<211> 828
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(828)
<223> n = A,T,C or G

```

```

<400> 4
cctcctgagt cctactgacc tgtgttttct ggtgtggagt ccagggctgc taggaaaagg 60
aatgggcaga cacagggtgta tgccaatgtt tctgaaatgg gtataatttc gtcctctcct 120
tcggaacact ggctgtctct gaagacttct cgtcagttt cagtgaggac acacacaaag 180
acgtgggtga ccatgttggt tgtggggtgc agagatggga ggggtggggc ccacctgga 240
agagtggaca gtgacacaag gtggacactc tctacagatc actgaggata agctggagcc 300
acaatgcatg aggcacacac acagcaagga tgacnctgta aacatagccc acgtgtcct 360
gnnggcactg ggaagcctan atnaggccgt gagcanaaag aaggggagga tccactagtt 420
ctanagcggc cgccaccgcg gtgganctcc ancttttggt ccttttagtg agggttaatt 480
gcgcgcttgg cntaatcatg gtcatanctn tttcctgtgt gaaattgtta tccgctcaca 540
attccacaca acatacganc cggaaacata aantgtaaac ctgggggtgcc taatgantga 600
ctaactcaca ttaattgctg tgcgctcact gcccgtttc caatcnggaa acctgtcttg 660
ccncttgcat tnatgaatcn gccaaccccc ggggaaaagc gtttgcgttt tgggcgctct 720
tccgcttctt cncctantta ntccctnenc tgggtcattc cggtcgngc aaaccggttc 780
accnctcca aaggggggtat tccggtttcc ccnaatccgg gganancc 828

```

```

<210> 5
<211> 834
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(834)
<223> n = A,T,C or G

```

```

<400> 5
tttttttttt tttttactga tagatggaat ttattaagct tttcacatgt gatagcacat 60
agttttaatt gcatccaaag tactaacaaa aactctagca atcaagaatg gcagcatggt 120
attttataac aatcaacacc tgtggctttt aaaatttggt tttcataaga taattttatac 180
tgaagtaaat ctagccatgc ttttaaaaaa tgcttttaggt cactccaagc ttggcagtta 240
acatttgga taaacaataa taaaacaatc acaatttaat aaataacaaa tacaacattg 300
taggccataa tcatatacag tataaggaaa aggtggtagt gttgagtaag cagttattag 360

```

```
<210> 6
<211> 818
<212> DNA
<213> Homo sapien
```

<400> 6

```
<210> 7
<211> 817
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(817)
<223> n = A,T,C or G
```

<400> 7

tttttttttt	tttttttttt	tggctctaga	gggggtagag	ggggtgctat	agggtaaata	60
cgggccctat	ttcaaagatt	tttaggggaa	ttaattctag	gacgatgggt	atgaaactgt	120
ggtttgctcc	acagatttca	gagcattgac	cgtagtatac	ccccggtcgt	gtagcgggtga	180
aagtggtttg	gtttagacgt	ccgggaattg	catctgtttt	taagcctaata	gtggggacag	240
ctcatgagtg	caagacgtct	tgtgatgtaa	ttattatacn	aatgggggct	tcaatcggga	300


```
<210> 8
<211> 799
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(799)
<223> n = A,T,C or G
```

```
<210> 9
<211> 801
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G
```

<400> 9

acgccttgat	cctcccaggc	tgggactggt	tctggggagga	gcggggcatg	ctgtgggtttg	60
taangatgac	actcccaaag	gtggctcctga	cagtggccca	gatggacatg	gggctcacct	120
caaggacaag	gccaccaggt	gcggggggcgg	aagcccacat	gatccttact	ctatgagcaa	180
aatcccctgt	ggggggcttct	ccttgaagtc	cqccancagg	qctcagtcctt	tggaccanag	240

```

caggatcatgg ggttgtnngc caactggggg ccncaacgca aaanggcnc gggcctcngn 300
caccateccc angacgccc tacactnctg gacctcccnc tccaccactt tcatgcgctg 360
ttentacccg cgnatntgtc ccantgttt cngtgcenac tccancttct nggacgtgcg 420
ctacatacgc ceggantenc nctcccgtt tgtccctatc cacgtncan caacaaattt 480
cncntantg caccnattec cacttttnc agntttcnc nncgngett cttntaaaag 540
ggttgancce cggaaaatnc cccaaagggg gggggccngg taccacactn cccctnata 600
gctgaantcc ccatnaccnn gnetcnatgg anccntcnc ttttaannacn ttctnaactt 660
gggaanance ctgcncntn ccccnttaa tccnccctg cnangnnent ccccnntec 720
ncccnntng gcntntnann cnaaaaaggc ccnnnancaa tctcctnnen cctcanttcg 780
ccanccctcg aaatcgccn c 801

```

```

<210> 10
<211> 789
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

```

```

<400> 10
cagtctatnt ggccagtgtg gcagctttcc ctgtggctgc cgggtgccaca tgccctgtccc 60
acagtgtggc cgtgggtgaca gcttcagccg cctcaccgg gttcaccttc tcagccctgc 120
agatcctgcc ctacacactg gcctccctct accaccggga gaagcagggtg ttccctgccc 180
aataccgagg ggacactgga ggtgctagca gtgaggacag cctgatgacc agcttccctg 240
caggccctaa gcctggagct ccttcccta atggacacgt ggggtgctgga ggcagtggcc 300
tgctcccacc tccaccgccc ctctgcccgg cctctgctg tgatgtctcc gtacgtgtgg 360
tggtgggtga gccaccgan gccagggtgg ttccgggccc gggcatctgc ctggacctcg 420
ccatcctgga tagtgttcc tgctgtccca ngtggcccca tccctgttta tgggctccat 480
tgtccagctc agccagtctg tcaactgcta tatggtgtct gccgcaggcc tgggtctggt 540
cccatttact ttgtacaca ggtantattt gacaagaacg anttggccaa atactcagcg 600
ttaaaaaatt ccagcaacat tgggggtgga aggcctgcct cactgggtcc aactccccgc 660
tctgttaac cccatggggc tgccggcttg gccgccaatt tctgttgctg ccaaantnat 720
gtggctctct gctgccacct gttgtggct gaagtgcnta cngcncanct nggggggtng 780
gnggttccc 789

```

```

<210> 11
<211> 772
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(772)
<223> n = A,T,C or G

```

```

<400> 11
cccaccctac ccaaataatta gacaccaaca cagaaaagct agcaatggat tcccttctac 60
tttgttaaat aaataagtta aatattttaa tgccgtgtgc tctgtgatgg caacagaagg 120
accaacaggg cacatcctga taaaaggtaa gaggggggtg gatcagcaaa aagacagtgc 180

```

```

tgtgggctga ggggacctgg ttcttgtgtg ttgccccctca ggactcttcc cctacaaata      240
actttcatat gttcaaatec catggaggag tgtttcatcc tagaaactcc catgcaagag      300
ctacattaaa cgaagctgca ggttaagggg cttanagatg ggaaaccagg tgactgagtt      360
tattcagctc ccaaaaaccc ttctctaggt gtgtctcaac taggaggcta gctgttaacc      420
ctgagcctgg gtaatccacc tgcagagtcc ccgcattcca gtgcatggaa ccttctgggc      480
ctccctgtat aagtccagac tgaaaccccc ttggaaggnc tccagtcagg cagccctana      540
aactggggaa aaaagaaaag gacgccccan cccccagctg tgcanctacg cacctcaaca      600
gcacaggggtg gcagcaaaaa aaccacttta ctttggcaca aacaaaaact ngggggggca      660
accccggcac ccnangggg gttaacagga ancngggnaa cntggaaccc aattnaggca      720
ggcccnccac ccnnaatntt gctgggaaat ttttctccc ctaaattntt tc              772

```

<210> 12

<211> 751

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (751)

<223> n = A,T,C or G

<400> 12

```

gccccaatc cagctgccac accacccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tactttttgg tcgtgagcct tttgcttggg gcaggtttca      120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtanggtg agtctctaaa atccgtatag ttggtgaagc cacagcactt gagccctttc      240
atggtgggtg tccacacttg agtgaagtct tcttgggaac cataatcttt cttgatggca      300
ggcactacca gcaacgtcag ggaagtgtct agccattgtg gtgtacacca aggcgaccac      360
agcagctgen acctcagcaa tgaagatgan gaggangatg aagaagaacg tcncgagggc      420
acacttgctc tcagtcttan caccatanca gccntgaaa accaananca aagaccacna      480
cnccggctgc gatgaagaaa tnaccccneg ttgacaaact tgcattggcag tggganccac      540
agtggccena aaaatcttca aaaaggatgc cccatcnatt gaccccccaa atgcccactg      600
ccaacagggg ctgccccacn cncnnaacga tgancennatt gnacaagatc tncntggtct      660
tnatnaacnt gaacctgen tngtggctcc tgttcaggnc cnnnggectga cttctnaann      720
aangaactcn gaagncccca cngganannc g                                751

```

<210> 13

<211> 729

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (729)

<223> n = A,T,C or G

<400> 13

```

gagccaggcg tccctctgcc tgcccactca gtggcaacac ccgggagctg ttttgtcctt      60
tgtggancct cagcagtncc ctctttcaga actcantgcc aaganccttg aacaggagcc      120
accatgcagt gcttcagctt cattaagacc atgatgatcc tcttcaattt gctcatcttt      180
ctgtgtgggtg cagccctgtt ggcagtgggc atctgggtgt caatcgatgg ggcatecttt      240

```

```

ctgaagatct tcggggccact gtcgtccagt gccatgcagt ttgtcaacgt gggctacttc      300
ctcatcgtag cccggcgttgt ggtcttagct ctagggttcc tgggctgcta tgggtgctaag      360
actgagagca agtgtgccct cgtgacgttc ttcttcatcc tctctctcat cttcattgct      420
gaggttgcaa tgctgtggtc gccttggtgt acaccacaat ggctgagcac ttctgacgt      480
tgctggtaat gcctgccatc. aanaaaagat tatgggttcc caggaanact tcaactcaagt      540
gttggaacac caccatgaaa gggctcaagt gctgtggctt cnnccaacta tacggatttt      600
gaagantcac ctacttcaaa gaaaanagtg cctttccccc atttctgttg caattgacaa      660
acgtcccca cagagccaat tgaaaacctg cacccaaccc aaanggggtcc ccaaccanaa      720
attnaaggg                                     729

```

<210> 14

<211> 816

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(816)

<223> n = A,T,C or G

<400> 14

```

tgctcttctt caaagttgtt cttgttgcca taacaaccac cataggtaaa gcggggcgcag      60
tgttcgctga aggggttgta gtaccagcgc gggatgctct ccttgcagag tctgtgtct      120
ggcagggtcca cgcagtgcc tttgtcactg gggaaatgga tgcgctggag ctcgtaaaag      180
ccactcggtg atttttcaca ggcagcctcg tccgacgcgt cggggcagtt ggggggtgtct      240
tcacactcca ggaaactgtc natgcagcag ccattgctgc agcgggaactg ggtgggctga      300
cangtgccag agcacactgg atggcgccct tccatgnnan gggccctgng ggaaagtccc      360
tganccccc anctgcctct caaangcccc accttgcaca ccccgacagg ctagaatgga      420
atcttcttcc cgaaaggtag ttnttcttgt tgcccaance anccccntaa acaaactctt      480
gcanatctgc tccngggggg tentantacc ancgtgggaa aagaacccca ggcngcgaac      540
caancttggt tggatncgaa gcnataatct nctnttctgc ttggtggaca gcaccantna      600
ctgtnnanct ttagnccntg gtectcntgg gttgnncttg aacctaatcn ccnntcaact      660
gggacaaggt aantngcent cctttnaatt cccnanentn cccctgggtt tgggggttttn      720
cncnctcta cccagaaan nccgtgttcc cccccaacta ggggcnaaa ccnnttnttc      780
cacaacctn cccacccac gggttcngnt ggttng                                     816

```

<210> 15

<211> 783

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(783)

<223> n = A,T,C or G

<400> 15

```

ccaaggcctg ggcaggcata nacttgaagg tacaaccca ggaaccctg gtgctgaagg      60
atgtggaaaa cacagattgg cgcctactgc ggggtgacac ggatgtcagg gtagagagga      120
aagacccaaa ccaggtggaa ctgtggggac tcaaggaang cacctacctg ttccagctga      180
cagtgactag ctcagaccac ccagaggaca cggccaacgt cacagtcact gtgctgtcca      240

```

```

ccaagcagac agaagactac tgccctcgcat ccaacaangt gggtegetgc cggggctctt      300
tcccacgctg gtactatgac cccacggagc agatctgcaa gagtttctgt tatggaggct      360
gcttggggcaa caagaacaac taccttcggg aagaagagtg cattctancc tgtcnggggtg      420
tgcaagggtgg gcctttgana ngcanctctg gggctcangc gactttcccc cagggccctt      480
ccatggaaag ggcgccatcca ntgttctctg gcacctgtca gcccacccag ttcgctgca      540
ncaatggctg ctgcatcnac antttctctg aattgtgaca acacccccca ntgcccccaa      600
ccctcccaac aaagcttccc tgttnaaaaa tacnccantt ggcttttnac aaacncccg      660
cnctctcntt tccccnntn aacaaagggc nctngcnttt gaactgccn aaccnnggaa      720
tctnccnngg aaaaantncc ccccttggtt cctnnaance cctcncnaa anctncccc      780
ccc                                                                 783

```

```

<210> 16
<211> 801
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(801)
<223> n = A,T,C or G

```

```

<400> 16
gccccaatc cagctgccac accaccacg gtgactgcat tagttcggat gtcatacaaa      60
agctgattga agcaaccctc tactttttgg tcgtgagcct tttgcttggg gcagggttca      120
ttggctgtgt tgggtgacgtt gtcattgcaa cagaatgggg gaaaggcact gttctctttg      180
aagtaggggtg agtctcaaaa atccgtatag ttgggtgaagc cacagcactt gagccctttc      240
atgggtgggtg tccacacttg agtgaagtct tcctgggaac cataatcttt ctgatggca      300
ggcactacca gcaacgtcag gaagtgtca gccattgtgg tgtacaccaa ggcgaccaca      360
gcagctgcaa cctcagcaat gaagatgagg aggaggatga agaagaacgt cncgagggca      420
cacttgtctc cgtctttagc accatagcag cccangaaac caagagcaaa gaccacaacg      480
cngctgcga atgaaagaaa ntaccacgt tgacaaactg catggccact ggacgacagt      540
tggcccgaan atcttcagaa aagggatgcc ccacgtattg aacacccana tgcccactgc      600
cnacagggct gcncncncn gaaagaatga gccattgaag aaggatcttc ntggctctaa      660
tgaactgaaa cntgcatgg tggccctgt tcagggctct tggcagtga ttctganaaa      720
aaggaacngc ntnagcccc ccaaangana aaacaccccc ggggtgttgc ctgaattggc      780
ggccaaggan cctgccccn g                                                                 801

```

```

<210> 17
<211> 740
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(740)
<223> n = A,T,C or G

```

```

<400> 17
gtgagagcca ggcgtccctc tgccctgcca ctgagtggca acacccggga gctgttttgt      60
cctttgtgga gcctcagcag ttcctcttt cagaactcac tgccaagagc cctgaacagg      120
agccaccatg cagtgttca gttcattaa gaccatgatg atcctcttca atttgcctcat      180

```



```

nggcgaatcg taatnaggcg tgcgcgcga atntgtence gtttatntn ccagntcnc      240
ctnccnacc tacntcttcn nagctgtcnn acccctngtn cgnaccccc naggtcggga      300
tcgggtttnn nntgaccgng cnncccccc cccctccat nacganccnc ccgcaccacc      360
nanngcncgc nccccgnnct ctgcgcnc cgtgctntn cccctgtngc ctggcncngn      420
accgcattga cctcgcgcnn ctncnngaaa ncgnanacgt ccgggttggn annancgtg      480
tggnnnngcg tetgncgcgc gtctcttcn ncncttcca ccatcttcnt tacngggtct      540
ccncgcctc tcnnncacnc cctgggacgc tntctntgc ccccttnac tccccctt      600
cgncgtgnc cgnccccacc ntcatttnca nacgntcttc acaannnct ggntnnctcc      660
cnancngncn gtcancnag ggaagggngg ggnncnntg nttgacgttg ngngangtc      720
cgaanantcc tcnctcan cncctaccct cgggcgnnct ctngttnc aacttancaa      780
ntctcccccg ngngcncntc tcagcctcnc cnccccnct ctctgcantg tncctctctc      840
tnaccmntac gantnttcn cncctctt cc      872

```

```

<210> 24
<211> 815
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(815)
<223> n = A,T,C or G

```

```

<400> 24
gcatgcaagc ttgagtattc tatagngtca cctaaatanc ttggcntaat catggtcnta      60
nctgncttcc tgtgtcaa atgtatacnaa tanatatgaa tctnatntga caaganngtg      120
tcntncatta gtaacaantg tntgtccat cctgtengan canattccca tnnattncgn      180
cgcattcncn gencantatn taatngggaa ntcnnntnnn ncaccnncat ctatctncc      240
gnccttgac tggcnagat ggatnantt tntntgacc nacatgttca tcttggtatn      300
aanaccccc cgngncac cggttngng cnagcncnt ccaagacct ctgtggaggt      360
aacctgcgtc aganncatca aacntgggaa accgcncnc angtnnaagt ngnnncanan      420
gateccgtcc agnnttnacc atccttcnc agcgcctt tntgtgctt anagnnagc      480
gtgtccnanc cncctcaacat ganacgcgc agncanccg caattnggca caatgtcnc      540
gaacccccca gggggantna tncaaancc caggattgtc cncncangaa atccncanc      600
ccnccctac cncncttgg gacngtgacc aantccgga gtncagtc gccngnctc      660
ccccaccgt nncntgggg gggggaanct cngnntcanc cngncgaggn ntcgnaagga      720
accggnctn ggncgaanng ancnntnga agnccnct cgtataacce cccctcncca      780
nccnancgnt agntcccc cngggtncgg aangg      815

```

```

<210> 25
<211> 775
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(775)
<223> n = A,T,C or G

```

```

<400> 25
ccgagatgtc tcgtccgtg gccttagctg tgctcgcgt actctctctt tctggcctgg      60

```

```

aggctatcca gcgctactcca aagattcagg tttactcacg tcatccagca gagaatggaa      120
agtcaaattt cctgaattgc tatgtgtctg ggtttcatcc atccgacatt gaanttact      180
tactgaagaa tgganagaga attgaaaaag tggagcattc agacttgtct ttcagcaagg      240
actggtcttt ctatctcntg tactacactg aattcacccc cactgaaaaa gatgagtatg      300
cctgccgtgt gaaccatgtg actttgtcac agcccaagat agttaagtgg gatcgagaca      360
tgtaagcagn cnnatggaa gtttgaagat gcgcatttg gattggatga attccaaatt      420
ctgcttgctt gcnttttaat antgatatgc ntatacccc taccctttat gnccccaaatt      480
tgtaggggtt acatnantgt tcnctnnga catgatcttc ctttataant ccncnttcg      540
aattgccgtt cncncngttt ngaatgtttc cnaaaccacg gttggctccc ccaggtcncc      600
tcttacggaa gggcctgggc cnccttncaa ggttggggga accnaaaatt tcncttntgc      660
cncncncca cnnctcttng nncncanttt ggaacccttc cnattccctt tggcctenna      720
nccttnncta anaaaacttn aaancgtngc naaanntttt acttcccccc ttacc      775

```

```

<210> 26
<211> 820
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(820)
<223> n = A,T,C or G

```

```

<400> 26
anattantac agtctaattt tttcccagag gtgtgtanag ggaacggggc ctagaggcat      60
cccanagata ncttatanca acagtgtttt gaccaagagc tgctgggcac atttctgca      120
gaaaagggtg cggtcccat cactcctcct ctcccatagc catcccagag ggggtgagtag      180
ccatcangcc ttcgggtggga gggagtcang gaaacaacan accacagagc anacagacca      240
ntgatgacca tgggcgggag cgagcctctt cctgnaccg ggggtggcana nganagccta      300
nctgaggggt cacactataa acgttaacga ccnagatnan cactgtcttc aagtgcaccc      360
ttcctacctg acnaccagng accnnnaact gngcctggg gacagcctg ggancagcta      420
acnnagcact cacctgcccc cccatggcgg tncgntccc tggctctgnc aagggaagct      480
cctgttgga attnccggga naccaaggga nccccctcct ccantgtga aggaaaaann      540
gatggaattt tnccttccg gccntcccc tcttcttta cagccccct nntactctc      600
tccctctntt nctctgnnc acttttnacc ccnnnatttc ccttnattga teggannctn      660
ganattccac tnnccctnc cntcnatng naanacnaaa nactntctna ccnggggat      720
gggnnccctg ntcactctct ctttttctt accncnntt ctttgcctct ccttngatca
780tccaacntc gntggcentn ccccccnntt tcttttccc      820

```

```

<210> 27
<211> 818
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(818)
<223> n = A,T,C or G

```

```

<400> 27
tctgggtgat ggcctcttcc tctcaggga cctctgactg ctctgggcca aagaatctct      60

```

```

tgttttcttct ccgagcccca ggcagcgggtg attcagccct gcccaacctg attctgatga      120
ctgcgggatgc tgtgacggac ccaaggggca aataggggtcc caggggtccag ggaggggagc      180
ctgctgagca ctcccgcccc tcacctgcc cagccctgc catgagctct gggctgggtc      240
tccgctcca gggttctgct ctccangca ngccancaag tggcgtggg ccacactggc      300
ttcttctgc cccntccctg gctctgante tctgtcttcc tgtcctgtgc angcnccttg      360
gatctcagtt tccctcctc anngaactct gttctgann tcttcantta actntgantt      420
tatnaccnan tggnetgtnc tgtcnnactt taatgggcn gaccggctaa tccctccctc      480
nctcccttcc anttcnnna accngcttnc cntctctcc centancecg ccngggaanc      540
ctcctttgcc ctnaccangg gccnnnaccg cccntnnctn ggggggcnng gtnnctncnc      600
ctgntnnccc cnetcncnt tncctcgtec cnnncnecn nngcannttc nengtcccn      660
tnnctcttcn ngntcgnaa ngntcncntn tnnnnngn ngtntntncn tccctctcnc      720
cnnntgnang tntttnnnc ncngnncccc nnnnnnnnn nggnntntnn tctncncngc      780
cccnccccc ngnattaagg cctcncntct cgggcnc      818

```

```

<210> 28
<211> 731
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(731)
<223> n = A,T,C or G

```

```

<400> 28
aggaagggcg gagggatatt gtangggatt gagggatagg agnataangg gggaggtgtg      60
tcccaacatg anggtgnngt tctcttttga angaggggtg ngtttttann ccnggtgggt      120
gattnaaccc cattgtatgg agnnaaagg tttnagggat ttttcggctc ttatcagtat      180
ntanattcct gtnaatcgga aaatnatntt tcnnccggaa aatnttgctc ccatccgnaa      240
attnctcccg ggtagtgcatt nttngggggn cngccangtt tcccaggctg ctanaatcgt      300
actaaagntt naagtgggan tncaaagaa aacctnnac agagnatccn tacccgactg      360
tnnnttncct tcgcccctng actctgcnn agcccaatac ccnngngnat gtcncccnng      420
nnngcgcnc tgaaannnc tcgnggctnn gancatcang gggtttcgca tcaaaagcnn      480
cgtttncat naaggcactt tngcctcacc caaccnctng cctcnncca tttngccgctc      540
nggttncct acgctnntng cncctnnntn ganattttnc cggcctnggg naancctcct      600
gnaatgggta gggnccttntc ttttnaccnn gnggtntact aatcnnctnc acgctnctt      660
tctnaccccc ccccttttt caatcccanc ggcnaatggg gtctccccnn cgangggggg      720
nnnccannc c

```

```

<210> 29
<211> 822
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(822)
<223> n = A,T,C or G

```

```

<400> 29
actagtccag tgtggtggaa ttccattgtg ttggggncnc ttctatgant antnttagat      60

```

```

cgctcanacc tcacancctc ccnacnange ctataangaa nannaataga nctgtncnnt      120
atntntacnc tcatanncct cnnnacccac tccctcttaa cccntactgt gcctatngcn      180
tnnctantct ntgcgcctn cnanccaccn gtgggcecnac cncnngnatt ctcnatctcc      240
tcnccatntn gectananta ngtncataacc ctatacctac nccaatgcta nnnctaancn      300
tccatnantt annntaacta ccactgaent ngactttcnc atnanctcct aatttgaatc      360
tactctgact cccacngcct annnattagc ancntcccc nacnatntct caaccaaadc      420
ntcaacaacc tatctanctg ttncceaacc nttneectcg atccccnnac aacccccctc      480
ccaaataccc nccacctgac nccaaaccn caccatcccg gcaagccnan ggncatttan      540
ccactggaat cacnatngga naaaaaaac ccnaactctc tancncnnat ctccctaana      600
aatnctcctn naatttactn ncantnccat caancccaen tgaaacnnaa cccctgtttt      660
tanatccctt ctttcgaaaa ccnacccttt annncecaac ctttngggcc cccccnctnc      720
ccnaatgaag gncncccaat cnangaaacg nccntgaaaa ancnaaggcna anannntccg      780
canatcctat cccttanttn ggggnccctt nccnggggcc cc                        822

```

<210> 30

<211> 787

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(787)

<223> n = A,T,C or G

<400> 30

```

eggccgcctg ctctggcaca tgccctcctga atggcatcaa aagtgatgga ctgcccattg      60
ctagagaaga ccttctctcc tactgtcatt atggagccct gcagactgag ggctccccct      120
gtctgcagga tttgatgtct gaagtcgtgg agtgtggcct ggagctcctc atctacatna      180
gctggaagcc ctggagggcc tctctcgcca gcctccccct tctctccacg ctctccangg      240
acaccagggg ctccaggcag cccattattc ccagnangac atgggtgtttc tccacgcgga      300
cccatggggc ctgnaaggcc aggggtctcct ttgacaccat ctctcccgctc ctgcctggca      360
ggccgtggga tccactantt ctanaacggg cgccaccncg gtgggagctc cagcttttgt      420
tccnttaat gaaggtaat tgcncgcttg gcgtaatcat nggtcanaac tntttcctgt      480
gtgaaattgt ttntccctc ncnatccnc ncnacatacn aacccggaan cataaagtgt      540
taaagcctgg gggtnccctn nngaataaac tnaactcaat taattgcgtt ggctcatggc      600
ccgctttcnc ttnggaaaa ctgtcntccc ctgcnttntt gaatcggcca cccccnggg      660
aaaagcgggt tgcnttttng ggggntcctt ccncttcccc cctcnctaan cctnccgct      720
cggtcgttnc nggtngcggg gaangggnat nnnctccnc naagggggng agnnngntat      780
ccccaaa

```

<210> 31

<211> 799

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(799)

<223> n = A,T,C or G

<400> 31

```

tttttttttt tttttttggc gatgctactg ttttaattgca ggaggtgggg gtgtgtgtac      60
catgtaccag ggctattaga agcaagaagg aaggagggag ggcagagcgc cctgctgagc      120
aacaaaggac tcctgcagcc ttctctgtct gtctcttggc gcaggcacat ggggaggcct      180
cccgagggtt gggggccacc agtccagggg tgggagcact acanggggtg ggagtgggtg      240
gtggctggtn cnaatggcct gncacanatc cctacgattc ttgacacctg gatttcacca      300
ggggaccttc tgttctccca nggnaacttc ntnnatctcn aaagaacaca actgtttctt      360
cngcanttct ggctgttcat ggaaagcaca ggtgtccnat ttnggctggg acttgggtaca      420
tatggttccg gccacacctt ccntcnaa aagtaattca ccccccccn cntctnttg      480
cctgggccct taantacca caccggaact canttanta ttcatcttng gntgggcttg      540
ntnatncn cctgaangcg ccaagttgaa aggccacgcc gtncnctc cccatagnan      600
nttttnnct canctaagc cccccnggc aacnatccaa tcccccccn tgggggcccc      660
agcccanggc ccccgntctg ggnnncnng cncgnantcc ccaggntctc ccantcngnc      720
ccnnngcncc ccgcacgca gaacanaagg ntngagccnc cgcannnnnn nggtnncnac      780
ctgccccccc ccnncgnng

```

```

<210> 32
<211> 789
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(789)
<223> n = A,T,C or G

```

```

<400> 32
tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt      60
ttttncnag ggcaggttta ttgacaacct cncgggacac aancaggctg gggacaggac      120
ggcaacaggc tcgggcggcg gcggcggcg cctacctgc ggtaccaa atgtcagctc      180
cgctcccgt tgatnttct ctgcagctgc aggatgcct aaaacagggc ctgggcctn      240
ggtgggcacc ctgggatttn aatttccacg ggcacaatgc ggtcgcancc cctcaccacc      300
nattaggaat agtggnttta ccnccnccg ttggcncact cccntggaa accacttntc      360
gcggctccgg catctgggtc taaaccttgc aaacnctggg gccctctttt tggttantnt      420
ncnccacaca atcatnactc agactggcnc gggctggccc caaaaaan cnccccaaacc      480
ggncatgtc ttncgggggt tgetcgnatn tncatcact cccgggcnca ncaggncaac      540
ccaaaagttc ttngggcccn caaaaaanct ccggggggnc ccagtttcaa caaagtcac      600
ccccttggcc cccaaatcct cccccgntt nctgggtttg ggaacccacg cctctnnctt      660
tggnnggcaa gntggntccc ccttcgggcc cccgggtggc ccnctctaa ngaaaacncc      720
ntcctnnca ccatcccccc nngnnacgnc tancaangna tccctttttt tanaaacggg      780
ccccccncc

```

```

<210> 33
<211> 793
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(793)
<223> n = A,T,C or G

```

<400> 33

gacagaacat	ggtggatggt	ggagcacctt	tctatacgac	ttacaggaca	gcagatgggg	60
aattcatggc	tgttgagca	atanaacccc	agttctacga	gctgctgac	aaaggacttg	120
gactaaagtc	tgatgaactt	cccaatcaga	tgagcatgga	tgattggcca	gaaatgaana	180
agaagtttgc	agatgtat	gcaaagaaga	cgaaggcaga	gtggtgtcaa	atctttgacg	240
gcacagatgc	ctgtgtgact	ccggttctga	cttttgagga	ggttgttcat	catgatcaca	300
acaangaacg	gggctcgttt	atcaccantg	aggagcagga	cgtgagcccc	cgccctgcac	360
ctctgctggt	aaacacccca	gccatccctt	ctttcaaaag	ggatccacta	cttctagagc	420
ggncgccacc	gcggtggagc	tccagctttt	gttcccttta	gtgagggtta	attgcgcgct	480
tggcgtaatc	atggtcatan	ctgtttcctg	tgtgaaattg	ttatccgctc	acaattccac	540
acaacatacg	anccggaagc	atnaaatttt	aaagcctggg	ggtngcctaa	tgantgaact	600
nactcacatt	aattggcttt	gcgctcactg	cccgttttcc	agtcgggaaa	acctgtcctt	660
gccagctgcc	nttaatgaat	cnggccaccc	cccggggaaa	aggcngtttg	cttnttgggg	720
cgcnttccc	gctttctcgc	ttcctgaant	ccttcccccc	ggtctttcgg	cttgcggcna	780
acggtatcna	cct					793

<210> 34

<211> 756

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(756)

<223> n = A,T,C or G

<400> 34

gccgcgaccg	gcatgtacga	gcaactcaag	ggcgagtgga	accgtaaaag	ccccaatctt	60
ancaagtgcg	gggaanagct	gggtcgactc	aagctagt	ttctggagct	caacttcttg	120
ccaaccacag	ggaccaagct	gaccaaacag	cagctaattc	tgccccgtga	catactggag	180
atcgggggccc	aattggagcat	cctacgcaan	gacatccctt	ccttcgagcg	ctacatggcc	240
cagctcaaat	gctactactt	tgattacaan	gagcagctcc	ccgagtcagc	ctatatgcac	300
cagctcttgg	gcctcaacct	cctcttctg	ctgtccaga	accgggtggc	tgantnccac	360
acgganttgg	ancggctgcc	tgcccaanga	catacanacc	aatgtctaca	tcnaccacca	420
gtgtcctgga	gcaatactga	tgganggcag	ctaccncaaa	gtnttctg	ccnagggtaa	480
catccccgcg	cgagagctac	accttcttca	ttgacatcct	gctcgacact	atcagggatg	540
aaaatcgng	ggttgcctca	gaaaggctnc	aanaanatcc	ttttcnctga	aggcccccg	600
atncnctagt	netagaatcg	gccccccatc	gcggtgganc	ctccaacctt	tcgttnccct	660
ttactgaggg	ttnattgccg	cccttgccgt	tatcatggtc	acncngttn	cctgtgttga	720
aattnttaac	cccccaaat	tccacgcna	cattn			756

<210> 35

<211> 834

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(834)

<223> n = A,T,C or G

<400> 35

```

ggggatctct anactnacct gnatgcatgg ttgtcggtgt ggtcgctgtc gatgaanatg      60
aacaggatct tgccttgaa gctctcggt gctgtnttta agttgctcag tctgccgtca      120
tagtcagaca cncctctggg caaaaaacan caggatntga gtcttgattt cacctccaat      180
aatcttcngg gctgtctgct cggatgaact gatgaacnang ggcagctggg tgtgtntgat      240
aaantccanc angttctcct tggatgaact ccttcaaag ttgttcgggc cttcatcaaa      300
cttctnnaan angannancc canctttgtc gagctgggat ttgganaaca cgtcactggt      360
ggaaactgat cccaaatggg atgtcatcca tgcctctgct tgcctgcaa aaacttgctt      420
ggcncaaate cgactcccn tccttgaaag aagccnatca cccccctc cctggactcc      480
nncaangact ctncgctnc cccntccng cagggttggg ggcannccgg gccentgcgc      540
ttcttcagcc agttcacnat ntcatcagc cctctgcca gctgtntat tcctggggg      600
ggaanccgtc tctcccttc tgaannaact ttgacgctng gaatagccgc gentcnent      660
acntnctggg cggggttcaa antccctccn ttgcnntcn cctcgggcca ttctggattt      720
nccnaacttt tctctcccc cncctccng ngtttggntt tttcatnggg ccccaactct      780
gctnttggcc antccctgg gggcntntan cncctctnt ggtccentng ggcc      834

```

<210> 36

<211> 814

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(814)

<223> n = A,T,C or G

<400> 36

```

cggncgcttt ccngccgcgc cccgtttcca tgacnaaggc tcccttcang ttaaatacnn      60
cctagnaaac attaatgggt tgctctacta atacatcata cnaaccagta agcctgcca      120
naacgccaac tcaggccatt cctaccaaag gaagaaaggc tggctctctc acccctgta      180
ggaaaggcct gccttgtaag acaccacaat ncggctgaat ctnaagtctt gtgttttact      240
aatggaaaaa aaaaataaac aanaggtttt gttctcatgg ctgccaccg cagcctggca      300
ctaaaacanc ccagcgtca cttctgcttg ganaaatatt ctttgcctt ttggacatca      360
ggcttgatgg tatcactgcc acntttccac ccagctgggc ncccttccc catntttgtc      420
antganctgg aaggcctgaa ncttagtctc caaaagtctc ngcccacaag accggccacc      480
aggggangtc ntttncagt gatctgcaa anantaccn tatcatcnnt gaataaaaag      540
gccctgaac ganatgctc cancanctt taagacccat aatcctngaa ccattggtgcc      600
cttcgggtct gatccnaaag gaatgttctt ggggtccant cctcctttg ttncctacgt      660
tgtnttggac cctgctngn atnaccaan tganatcccc ngaagcacc tncctctggc      720
atttganttt cntaaattct ctgccctacn nctgaaagca cnattcctn ggcnccnaan      780
ggngaactca agaaggtctn ngaaaaacca cncn      814

```

<210> 37

<211> 760

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(760)

<223> n = A,T,C or G

<400> 37

gcattgctgct	cttctctcaaa	gttggttcttg	ttgccataac	aaccaccata	ggtaaagcgg	60
gcgcagtgtt	cgctgaaggg	gttgtagtac	cagcgóggga	tgctctcctt	gcagagtctt	120
gtgtctggca	ggteccacgca	atgccctttg	tactggggga	aatggatgcy	ctggagctcg	180
tcaanccac	tctgtatatt	ttcacangca	gcctctcccg	aagctccgg	gcagttgggg	240
gtgtcgtcac	actccactaa	actgtcgatn	cancagccca	ttgctgcagc	ggaactgggt	300
gggctgacag	gtgccagaac	acactggatn	ggcctttcca	tggaggggcc	tgggggaaat	360
cncctnancc	caaactgcct	ctcaaaggcc	accttgca	ccccgacagg	ctagaaatgc	420
actcttcttc	ccaaaggtag	ttgttcttgt	tgcccaagca	ncctccanca	aacccaaanc	480
ttgcaaaatc	tgctccgtgg	gggtcatnnn	taccanggtt	ggggaaanaa	acccggcngn	540
ganccncctt	gtttgaatgc	naaggnaata	atctctctgt	cttgcttggg	tggaaanagca	600
caattgaact	gttaacnttg	ggccnggttc	cncnngggtg	gtctgaaact	aatcacgcgc	660
actggaaaaa	ggtangtgcc	ttccttgaat	tcccaaantt	ccctngntt	tgggtntttt	720
ctctctncc	ctaaaaatcg	tnntcccccc	centanggcg			760

<210> 38

<211> 724

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(724)

<223> n = A,T,C or G

<400> 38

tttttttttt	tttttttttt	tttttttttt	tttttaaaaa	ccccctccat	tgaatgaaaa	60
cttccnaaat	tgtccaaccc	cctcnccaa	atnnccattt	ccgggggggg	gttccaaacc	120
caaattaatt	ttgganttta	aattaaatnt	tnattngggg	aanaanccaa	atgtnaagaa	180
aatttaaccc	attatnaact	taaatnccn	gaaaccctng	gnttccaaaa	atttttaacc	240
cttaaattcc	tccgaaattg	ntaanggaaa	accaaattcn	cctaaggctn	tttgaagggt	300
ngattttaaac	cccccttnant	tnnttttnacc	cnnngnctnaa	ntatttngnt	tccgggtgtt	360
tctntntaan	cntnggtaac	tcccngtaat	gaannnccct	aanccaatta	aaccgaattt	420
tttttgaatt	ggaaattccn	ngggaattna	ccgggggttt	tccnttttgg	gggccatncc	480
cccnctttcg	gggtttgggn	ntaggttgaa	tttttnnang	ncecaaaaaa	ncecccaana	540
aaaaaactcc	caagnnttaa	ttngaantnc	cccccttcca	ggccttttgg	gaaaggnggg	600
ttnttggggg	ccngggantt	cnttcccccn	ttncncccc	ccccccnggt	aaanggttat	660
ngnntttggt	ttttgggccc	cttnanggac	cttcgggatn	gaaattaaat	ccccggngcg	720
gccg						724

<210> 39

<211> 751

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(751)

<223> n = A,T,C or G

<210> 45
 <211> 234
 <212> DNA
 <213> Homo sapien

<400> 45
 acaacagacc cttgctcgct aacgacctca tgetcatcaa gttggacgaa tccgtgtccg 60
 agtctgacac catccggagc atcagcattg cttegcagtg ccctaccgcg gggaactctt 120
 gcctcgtttc tggctggggt ctgctggcga acggcagaat gcctaccgtg ctgcagtgcg 180
 tgaacgtgtc ggtggtgtct gaggaggtct gcagtaagct ctatgaccgc ctgt 234

<210> 46
 <211> 590
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(590)
 <223> n = A,T,C or G

<400> 46
 actttttatt taaatgttta taaggcagat ctatgagaat gatagaaaac atggtgtgta 60
 atttgatagc aatatttttg agattacaga gtttttagtaa ttaccaatta cacagttaaa 120
 aagaagataa tatattccaa gcanatacaa aatatctaata gaaagatcaa ggcaggaaaa 180
 tgantataac taattgacaa tggaaaatca attttaaatgt gaattgcaca ttatccttta 240
 aaagctttca aaanaaanaa ttattgcagt ctanttaatt caaacagtgt taaatggtat 300
 caggataaan aactgaaggg canaaagaat taattttcac ttcatgtaac ncacccanat 360
 ttacaatggc ttaaattgcan ggaaaaagca gtggaagtag ggaagtantc aaggtctttc 420
 tggctctctaa tctgccttac tctttgggtg tggctttgat cctctggaga cagctgccag 480
 ggctcctgtt atatccacaa tcccagcagc aagatgaagg gatgaaaaag gacacatgct 540
 gccttccttt gaggagactt catctcactg gccaacactc agtcacatgt 590

<210> 47
 <211> 774
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(774)
 <223> n = A,T,C or G

<400> 47
 acaagggggc ataatgaagg agtgggggana gatttttaaag aaggaaaaaa aacgaggccc 60
 tgaacagaat tttcctgnac aacggggcctt caaaataatt ttcttgggga ggttcaagac 120
 gcttcactgc ttgaaactta aatggatgtg ggacanaatt ttctgtaatg accctgaggg 180
 cattacagac gggactctgg gaggaaggat aaacagaaaag gggacaaaagg ctaatcccaa 240
 aacatcaaag aaaggaaggt ggcgtcatat cteccagcct acacagttct ccagggtctt 300
 cctcatccct ggaggacgac agtggaggaa caactgacca tgtccccagg ctctgtgtg 360
 ctggctcctg gtcttcagcc cccagctctg gaagcccacc ctctgtgat cctgcgtggc 420

```

ccacactcct tgaacacaca tccccaggtt atattcctgg acatggctga acctcctatt      480
cctacttccg agatgccttg ctccctgcag cctgtcaaaa tccactcac cctccaaacc      540
acggcatggg aagcctttct gacttgcttg attactccag catcttggaa caatccctga      600
ttccccactc cttagaggca agataggggtg gttaagagta gggctggacc acttgagacc      660
aggctgctgg cttcaaattn tggctcattt acgagctatg ggaccttggg caagtnatct      720
tcacttctat gggcntcatt ttgttctacc tgcaaaatgg gggataataa tagt          774

```

```

<210> 48
<211> 124
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(124)
<223> n = A,T,C or G

```

```

<400> 48
canaaattga aattttataa aaaggcattt ttctcttata tccataaaat gatataattt      60
ttgcaantat anaaatgtgt cataaattat aatgttcctt aattacagct caacgcaact      120
tggt                                              124

```

```

<210> 49
<211> 147
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(147)
<223> n = A,T,C or G

```

```

<400> 49
gccgatgcta ctattttatt gcaggagggtg ggggtgtttt tattattctc tcaacagctt      60
tgtggctaca ggtggtgtct gactgcatna aaaanttttt tacgggtgat tgcaaaaatt      120
ttagggcacc catatcccaa gcantgt                    147

```

```

<210> 50
<211> 107
<212> DNA
<213> Homo sapien

```

```

<400> 50
acattaaatt aataaaagga ctgttgggggt tctgctaaaa cacatggctt gatatatgtc      60
atggtttgag gttaggagga gttaggcata tgttttggga gaggggt                    107

```

```

<210> 51
<211> 204
<212> DNA
<213> Homo sapien

```

<210>	54
<211>	151
<212>	DNA

<400> 54

<210> 55

<211> 91

<212> DNA

<213> Homo sapien

<400> 55

<210> 56

<211> 133

<212> DNA

<213> Homo sapien

<400> 56

<210> 57

<211> 147

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) ... (147)

$\langle 223 \rangle$ n = A, T, C or G

<400> 57

<210> 58

<211> 198

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$\langle 222 \rangle$ (1) ... (198)

$\langle 223 \rangle$ n = A, T, C or G

```
<210> 59
<211> 330
<212> DNA
<213> Homo sapien
```

```
<210> 60
<211> 175
<212> DNA
<213> Homo sapien
```

```
<210> 61
<211> 154
<212> DNA
<213> Homo sapien
```

```
<210> 62
<211> 30
<212> DNA
<213> Homo sapien
```

```
<210> 63
<211> 89
<212> DNA
<213> Homo sapien
```





```
accggagtaa  ctgagtcggg  acgctgaatc  tgaatccacc  aataaataaa  ggttctgcag      60
aatcagtgca  tccaggattg  gtccttggat  ctgggggt                                     97
```

<213> Homo sapien

```
accggagtaa  ctgagtcggg  acgctgaatc  tgaatccacc  aataaataaa  ggttctgcag      60
aatcagtgca  tccaggattg  gtccttggat  ctgggggt                                     97
```

<213> Homo sapien

<223> n = A, T, C or G

acaacaanaa	ntcccttctt	taggccactg	atggaaacct	ggaacccctt	tttgatggca	60
gcatggcgtc	ctaggccttg	acacagcggc	tggggtttgg	gctntcccaa	accgcacacc	120
ccaaccctgg	tctaccacaa	nttctggcta	tgggctgtct	ctgccactga	acatcagggt	180
tcggtcataa	natgaaatcc	caangggggac	agaggtcagt	agaggaagct	caatgagaaa	240
ggtgctgttt	gctcagccag	aaaacagctg	cctggcattc	gccgctgaac	tatgaacceg	300
tgggggtgaa	ctacccccan	gaggaatcat	gcctggggcg	tgcaanggtg	ccaacaggag	360
gggcgggagq	aqcatgt					377

<213> Homo sapien

acgcctttcc	ctcagaattc	aggggaagaga	ctgtcgctcg	ccttcctccg	ttgttgctg	60
agaaaccgtg	tgccctttcc	caccatatcc	accctcgctc	catctttgaa	ctcaaacacg	120
aggaactaac	tgcacctgg	tcctctcccc	agtccccagt	tcacctcca	tcctcacct	180
tcctccactc	taagggatat	caacactgcc	cagcacaggg	gccctgaatt	tatgtggttt	240
ttatatattt	tttaataaga	tgcactttat	gtcatttttt	aataaaagtct	gaagaattac	300
tgttt						305

<213> Homo sapien

atgaccccta	acaggggcc	tctcagccct	cctaattgacc	tccggcctag	ccatgtgatt	60
tcaacttcac	tccataacgc	tcctcatact	aggcctacta	accaacacac	taaccatata	120
ccaatgatgg	cgcgatgtaa	cacgagaaaag	cacataccaa	ggccaccaca	caccacctgt	180
ccaaaaaggc	cttcgatacg	ggataatcct	atttattacc	tcagaagttt	ttttcttcgc	240
agggaTTTTT	ctgagccttt	taccactcca	gcctagcccc	taccccccaa	ctaggagggc	300
actggccccc	aacaggcatc	accccgctaa	atcccctaga	agtccactc	ctaaacacat	360
ccgtattact	cgcattcagga	gtatcaatca	cctgagctca	ccatagtcta	atagaaaaca	420

477

```
<220>
<221> misc_feature
<222> (1) ... (533)
<223> n = A,T,C or G
```

agagctatag	gtacagtggtg	atctcagctt	tgcaaacaca	ttttctacat	agatagtact	60
aggtattaat	agatatgtaa	agaaagaaat	cacaccatta	ataatggtaa	gattgggttta	120
tgtgatttta	gtgggtatttt	tggcaccctt	atatatgttt	tccaaacttt	cagcagtgat	180
attattttcca	taacttaaaa	agtgagtttg	aaaaagaaaa	tctccagcaa	gcattctcatt	240
taaataaagg	tttgtcatct	ttaaaaatac	agcaatatgt	gacttttttaa	aaaagctgtc	300
aaataggtgt	gaccctacta	ataattatta	gaaatacatt	taaaaacatc	gagtacctca	360
agtcagtttg	ccttgaaaaa	tatcaaatat	aactcttaga	gaaatgtaca	taaaagaatg	420
cttcgtaatt	ttggagtang	aggttccttc	ctcaattttg	tattttttaaa	aagtacatgg	480
taaaaaaaaa	aattcacaac	agtatataag	gctgtaaaat	gaagaattct	gcc	533

```
<220>
<221> misc_feature
<222> (1)...(511)
<223> n = A,T,C or G
```

tattacggaa	aaacacacca	cataattcaa	ctancaaaga	anactgcttc	agggcggtga	60
aaatgaaagg	cttccaggca	gttatctgat	taaagaacac	taaaagaggg	acaaggctaa	120
aagccgcagg	atgtctacac	tatancaggc	gctatttggg	ttggctggag	gagctgtgga	180
aaacatggan	agattggtgc	tgganatcgc	cgtggctatt	cctcattggt	attacanagt	240
gaggttctct	gtgtgcccac	tggtttgaaa	accgttctnc	aataatgata	gaatagtaca	300
cacatgagaa	ctgaaatggc	ccaaacccag	aaagaaaagcc	caactagatc	ctcagaanac	360
gcttctaggg	acaataaccg	atgaagaaaa	gatggcctcc	ttgtgcccc	gtctgttatg	420
atttctctcc	attgcagcna	naaacccgtt	cttctaagca	aacncagggtg	atgatggcna	480
aaatacaccc	cctcttgaag	naccnaggagg	a			511

```
<220>  
<221> misc feature
```

Case	Age	Sex	Occupation	Onset	Duration	Course	Outcome
1	25	M	Student	1980	10 years	Chronic	Recovery
2	30	F	Housewife	1982	5 years	Chronic	Recovery
3	35	M	Teacher	1985	3 years	Chronic	Recovery
4	40	F	Manager	1988	2 years	Chronic	Recovery
5	45	M	Engineer	1990	1 year	Chronic	Recovery
6	50	F	Retired	1992	6 months	Chronic	Recovery
7	55	M	Farmer	1995	4 months	Chronic	Recovery
8	60	F	Homemaker	1998	3 months	Chronic	Recovery
9	65	M	Retired	2000	2 months	Chronic	Recovery
10	70	F	Homemaker	2002	1 month	Chronic	Recovery

<222> (1)...(499)

<223> n = A,T,C or G

<400> 73

cagtgccagc	actggtgcc	gtaccagtac	caataacagt	gccagtgcc	gtgccagcac	60
cagtgggtggc	ttcagtgtcg	gtgccagcct	gaccgccact	ctcacatttg	ggctcttcgc	120
tggccttggg	ggagctgggt	ccagcaccag	tggcagctct	ggtgctgtg	gtttctccta	180
caagtgagat	tttagatatt	gttaatcctg	ccagtctttc	tcttcaagcc	aggggtgcac	240
ctcagaaacc	tactcaacac	agcactctag	gcagccacta	tcaatcaatt	gaagttgaca	300
ctctgcatta	aatctatttg	ccatttctga	aaaaaaaaaa	aaaaaaagg	cgcccgctcg	360
antctagagg	gcccgtttta	acccgctgat	cagcctcgac	tgtgcttct	anttgccagc	420
catctgttgt	ttgcccctcc	cccngtgcct	tccttgaccc	tggaaagtgc	cactccact	480
gtcctttcct	aantaaaat					499

<210> 74

<211> 537

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(537)

<223> n = A,T,C or G

<400> 74

tttcatagga	gaacacactg	aggagatact	tgaagaatth	ggattcagcc	gcgaagagat	60
ttatcagctt	aactcagata	aaatcattga	aagtaataag	gtaaaagcta	gtctctaact	120
tccaggccca	cggtcaagt	gaatttgaat	actgcattta	cagtgtagag	taacacataa	180
cattgtatgc	atggaaacat	ggaggaacag	tattacagtg	tcctaccact	ctaatacaaga	240
aaagaattac	agactctgat	tctacagtga	tgattgaatt	ctaaaaatgg	taatcattag	300
ggcttttgat	ttataanact	ttgggtactt	atactaaatt	atggtagtta	tactgccttc	360
cagtttgctt	gatataattg	ttgatattaa	gattcttgac	ttatattttg	aatgggttct	420
actgaaaaan	gaatgatata	ttcttgaaga	catcgatata	catttattta	cactcttgat	480
tctacaatgt	agaaaatgaa	ggaaatgccc	caaattgtat	ggtgataaaa	gtccctg	537

<210> 75

<211> 467

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(467)

<223> n = A,T,C or G

<400> 75

caaanacaat	tgttcaaaa	atgcaaatga	tacactactg	ctgcagctca	caaacacctc	60
tgcatattac	acgtacctcc	tcctgtcctc	caagtagtgt	ggtctattht	gccatcatca	120
cctgtgtct	gcttagaaga	acggctttct	gctgcaangg	agagaaatca	taacagacgg	180
tggcacaagg	aggccatctt	ttcctcatcg	gttattgtcc	ctagaagcgt	cttctgagga	240
tctagttggg	ctttctttct	gggtttgggc	catttcantt	ctcatgtgtg	tactattcta	300

<400> 84

```

gctggtagcc tatggcgtgg ccacgggangg gctcctgagg cacggggacag tgacttccca      60
agtatcctgc gccgcgtctt ctaccgtccc tacctgcaga tcttcgggca gattccccag      120
gaggacatgg acgtggccct catggagcac agcaactgct cgtcggagcc cggtctcttg      180
gcacaccctc ctggggccca ggggggcacc tgcgtctccc agtatgcaa ctggctggtg      240
gtgctgctcc tcgtcatctt cctgctcgtg gccaacatcc tgcgtggtcac ttgctcattg      300
ccatgttcag ttacacattc ggcaaagtag agggcaacag cnatctctac tgggaaggcc      360
agcgttnccg cctcatccgg                                     380

```

<210> 85

<211> 481

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(481)

<223> n = A,T,C or G

<400> 85

```

gagttagctc ctccacaacc ttgatgaggt cgtctgcagt ggctctctgc ttcataccgc      60
tnccatcgtc atactgtagg ttggccacca cctcctgcat cttggggcgg ctaatatcca      120
ggaaactctc aatcaagtca ccgtcnatna aacctgtggc tggttctgtc ttcctctcgg      180
tgtgaaagga tctccagaag gagtgtctga tcttccccac acttttgatg actttattga      240
gtcgattctg catgtccagc aggaggttgt accagctctc tgacagttag gtcaccagcc      300
ctatcatgcc nttgaacgtg ccgaagaaca ccgagccttg tgtggggggg gnagtctcac      360
ccagattctg cattaccaga nagccgtggc aaaaganatt gacaactcgc ccaggngaa      420
aaagaacacc tcttgaagt gctngccgct cctcgctcct tgggtggngc gentnecctt      480
t                                                                481

```

<210> 86

<211> 472

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(472)

<223> n = A,T,C or G

<400> 86

```

aacatcttcc tgtataatgc tgtgtaatat cgatccgatn ttgtctgctg agaattcatt      60
acttgaaaaa gcaacttnaa gcctggacac tggattataa attcacaata tgcaaacatt      120
taaacagtgt gtcaatctgc tcccttactt tgtcatcacc agtctgggaa taagggtatg      180
ccctattcac acctgttaaa agggcgctaa gcatttttga ttcaacatct ttttttttga      240
cacaagtccg aaaaaagcaa aagtaaacag ttnttaattt gttagccaat tcactttctt      300
catgggacag agccatttga tttaaaaagc aaattgcata atattgagct ttgggagctg      360
atatntgagc ggaagantag cttttctact tcaccagaca caactccttt catattggga      420
tgtnnacnaa agttatgtct cttacagatg ggatgctttt gtggcaattc tg                          472

```



```
<210> 90
<211> 400
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1) ... (400)  
<223> n = A,T,C or G
```

```
<210> 91
<211> 480
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (480)
<223> n = A,T,C or G
```

```
<210> 92
<211> 477
<212> DNA
<213> Homo sapien
```

<220>
 <221> misc_feature
 <222> (1)...(477)
 <223> n = A,T,C or G

<400> 92
 atacagccca natcccacca cgaagatgcg cttgttgact gagaacctga tgcgggtcact 60
 ggtcccgctg tagccccagc gactctccac ctgctggaag cggttgatgc tgcactcctt 120
 cccacgcagg cagcagcggg gcgggtcaat gaactccact cgtggcttgg ggttgacggg 180
 taantgcagg aagaggctga ccacctcgcg gtccaccagg atgcccgact gtgcggggacc 240
 tgcagcgaaa ctctcgatg gtcatgagcg ggaagcgaat gangcccagg gccttgccca 300
 gaaccttccg cctgttctct ggcgtcacct gcagctgctg ccgctnacac tggcctcgg 360
 accagcggac aaacggcggt gaacagccgc acctcacgga tgcccantgt gtgcgctcc 420
 aggaacggcn ccagcgtgtc caggtcaatg tcggtgaanc ctccgcggtt aatggcg 477

<210> 93
 <211> 377
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(377)
 <223> n = A,T,C or G

<400> 93
 gaacggctgg accttgctc gcattgtgct gctggcagga ataccttggc aagcagctcc 60
 agtccgagca gccccagacc gctgccgccc gaagctaagc ctgcctctgg ccttcccctc 120
 cgcctcaatg cagaaccant agtgggagca ctgtgtttag agttaagagt gaacactgtg 180
 tgattttact tgggaatttc ctctgttata tagcttttcc caatgctaata tccaaacaa 240
 caacaacaaa ataacatgtt tgccgtttna gttgtataaa agtangtgat tctgtatnta 300
 aagaaaatat tactgttaca tatactgctt gcaanttctg tatttattgg tncctctggaa 360
 ataaatatat tattaata 377

<210> 94
 <211> 495
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(495)
 <223> n = A,T,C or G

<400> 94
 ccctttgagg ggtaggggc cagttcccag tggaagaaac aggccaggag aantgcgtgc 60
 cgagctgang cagatttccc acagtgaccc cagagccctg ggctatagtc tctgaccctt 120
 ccaaggaaag accaccttct ggggacatgg gctggagggc aggacctaga ggcaccaagg 180
 gaaggcccca ttccggggct gttccccgag gaggaaggga aggggctctg tgtgcccccc 240
 acgaggaana ggccttgant cctgggatca nacaccctt cacgtgtatc cccacacaaa 300

```
<210> 95
<211> 472
<212> DNA
<213> Homo sapien
```

<400>	95						
cttgg	tttcattgcc	accacttagt	ggatgtcatt	tagaaccatt	ttgtctgctc		60
ggaag	ccttgcgcag	agcggacttt	gtaattgttg	gagaataact	gctgaatttt		120
gtttt	gagttgattc	gcaccactgc	accacaactc	aatatgaaaa	ctatttnact		180
attat	cttgtgaaaa	gtatacaatg	aaaattttgt	tcatactgta	tttatcaagt		240
gaaaa	gcaatagata	tatattcttt	tattatgttn	aattatgatt	gccattatta		300
caaaa	tgtggagtgt	atgttctttt	cacagtaata	tatgcctttt	gtaacttcac		360
cattt	tattgtaaat	gaattacaaa	attcttaatt	taagaaaatg	gtangttata		420
ctcan	taatttcttt	ccttgtttac	gttaattttg	aaaagaatgc	at		472

```
<210> 96
<211> 476
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1) ... (476)  
<223> n = A,T,C or G
```

<400> 96						
ctgaagcatt	tcttcaaact	tntctacttt	tgtcattgat	acctgtagta	agttgacaat	60
gtggtgaaat	ttcaaaatta	tatgtaaactt	ctactagt	tcttctcc	cccaagtctt	120
ttttaactca	tgatttttac	acacacaatc	cagaacttat	tatatagcct	ctaagtcttt	180
attcttcaca	gtagatgatg	aaagagtcct	ccagtgtctt	gngcanaatg	ttctagntat	240
agctggatac	atacngtggg	agttctataa	actcatacct	cagtgggact	naacccaaaat	300
tgtgttagtc	tcaattccta	ccacactgag	ggagcctccc	aaatcactat	attcttatct	360
gcagggtactc	ctccagaaaa	acngacaggg	caggcttgca	tgaaaaaagtn	acatctgcgt	420
tacaaagtct	atcttctctca	nangtctgtg	aaggaacaat	ttaatcttct	agcttt	476

```
<210> 97
<211> 479
<212> DNA
<213> Homo sapien
```

<220>

<221> misc_feature
 <222> (1)...(479)
 <223> n = A,T,C or G

<400> 97

actctttcta atgctgatat gatcttgagt ataagaatgc atatgtcact agaattggata	60
aaataatgct gcaaacttaa tgttcttatg caaaatggaa cgctaatagaa acacagctta	120
caatcgcaaa tcaaaactca caagtgtcga tctgttgtag atttagtgta ataagactta	180
gattgtgctc ctccggatat gattgtttct canatcttgg gcaatnttcc ttagtcaa	240
caggctacta gaattctggt attggatatn tgagagcatg aaatttttaa naatacactt	300
gtgattatna aattaatcac aaatttcaact tatacctgct atcagcagct agaaaaacat	360
ntnnttttta natcaaagta ttttgtgttt ggaantgttn aaatgaaatc tgaatgtggg	420
ttcnatctta ttttttccn gacnactant tnccttttta gggncatttc tganccatc	479

<210> 98
 <211> 461
 <212> DNA
 <213> Homo sapien

<400> 98

agtgaattgt cctccaacaa aacccttga tcaagtttgt ggcactgaca atcagaccta	60
tgctagttcc tgtcatctat tgcactactaa atgcagactg gaggggacca aaaaggggca	120
tcaactccag ctggattatt ttggagcctg caaatctatt cctacttgta cggactttga	180
agtgaattcag ttctctctac ggatgagaga ctggctcaag aatatcctca tgcagcttta	240
tgaagccact ctgaacacgc tggttatcta gatgagaaca gagaaataaa gtcagaaaat	300
ttacctggag aaaagaggct ttggctgggg accatcccat tgaaccttct cttaaggact	360
ttaagaaaaa ctaccacatg ttgtgtatcc tgggtgcggc cgtttatgaa ctgaccaccc	420
tttgaataaa tcttgacgct cctgaacttg ctctctgcg a	461

<210> 99
 <211> 171
 <212> DNA
 <213> Homo sapien

<400> 99

gtggccgcgc gcaggtgttt cctcgtaccg cagggccccc tcccttcccc aggcgtccct	60
cggcgctctt gcgggcccga ggaggagcgg ctggcggttg gggggagtgt gaccacccct	120
cggtgagaaa agccttctct agcgatctga gaggcgtgcc ttgggggtac c	171

<210> 100
 <211> 269
 <212> DNA
 <213> Homo sapien

<400> 100

cgcccgcaag tgcaactcca gctggggcgc tgcggacgaa gattctgcca gcagttggtc	60
cgactgcgac gacggcggcg gcgacagtcg caggtgcagc gcgggcgcct ggggtcttgc	120
aaggctgagc tgacgcgcga gaggtcgtgt cacgtccac gaccttgacg ccgtcgggga	180
cagccggaac agagcccggt gaagcgggag gcctcgggga gccctcggg aagggcggcc	240
cgagagatac gcaggtgcag gtggccgcgc	269

<400> 104

tttttttttt	tttttttttt	tttttctctt	cttttttttt	gaaatgagga	tgcagttttt	60
cactctctag	atagggcatg	aagaaaactc	atctttccag	ctttaaaata	acaatcaa	120
ctcttatgct	atatcatatt	ttaagttaaa	ctaatagagc	actggcttat	cttctctga	180
aggaaatctg	ttcattcttc	tcattcatat	agttatatca	agtactacct	tgcataattga	240
gaggtttttc	ttctctat	acacatatat	ttccatgtga	atttgatatca	aacctttatt	300
ttcatgcaaa	ctagaaaata	atgtttcttt	tgcataagag	aagagaacaa	tatagcatta	360
caaaactgct	caaattgttt	gttaagtatt	ccattataat	tagttggcag	gagctaatac	420
aaatcacatt	tacgacagca	ataataaaac	tgaagtacca	gttaaataatc	caaaataatt	480
aaaggaacat	ttttagcctg	ggtataatta	gctaattcac	tttacaagca	tttattagaa	540
tgaattcaca	tggtattatt	cctagcccaa	cacaatgg			578

<210> 105

<211> 538

<212> DNA

<213> Homo sapien

<400> 105

tttttttttt	tttttcagta	ataatcagaa	caatatttat	ttttatattt	aaaattcata	60
gaaaagtgcc	ttacatttaa	taaaagtttg	tttctcaaag	tgatcagagg	aattagatat	120
gtcttgaaca	ccaatattaa	tttgaggaaa	atacaccaaa	atacattaag	taaattattt	180
aagatcatag	agcttgtaag	tgaaaagata	aaatttgacc	tcagaaactc	tgagcattaa	240
aaatccacta	ttagcaaata	aattactatg	gacttcttgc	tttaattttg	tgatgaatat	300
ggggtgtcac	tggtaaacca	acacattctg	aaggatacat	tacttagtga	tagattctta	360
tgtactttgc	taatacgtgg	atatgagttg	acaagtttct	ctttcttcaa	tcttttaagg	420
ggcgagaaat	gaggaagaaa	agaaaaggat	tacgcatact	gttctttcta	tggaaggatt	480
agatatgttt	cctttgccaa	tattaaaaaa	ataataatgt	ttactactag	tgaaaccc	538

<210> 106

<211> 473

<212> DNA

<213> Homo sapien

<400> 106

tttttttttt	tttttttagtc	aagtttctat	ttttattata	attaaagtct	tggtcatttc	60
atttattagc	tctgcaactt	acatatttaa	attaaagaaa	cgtttttagac	aactgtacaa	120
tttataaatg	taaggtgcca	ttattgagta	atatattcct	ccaagagtgg	atgtgtccct	180
tctcccacca	actaatgaac	agcaacatta	gtttaatttt	attagtagat	atacactgct	240
gcaaacgcta	attctcttct	ccatccccat	gtgatattgt	gtatatgtgt	gagttggtag	300
aatgcatcac	aatctacaat	caacagcaag	atgaagctag	gctgggcttt	cggtgaaaat	360
agactgtgtc	tgtctgaatc	aaatgatctg	acctatcttc	ggtggcaaga	actcttcgaa	420
ccgcttcttc	aaaggcgctg	ccacatttgt	ggctctttgc	acttgtttca	aaa	473

<210> 107

<211> 1621

<212> DNA

<213> Homo sapien

<400> 107

cgccatggca	ctgcagggca	tctcggtcat	ggagctgtcc	ggcctggccc	cgggcccggt	60
ctgtgctatg	gtcctggctg	acttcggggc	gcgtgtggta	cgcgtggacc	ggcccggctc	120

```

ccgctacgac gtgagccgct tgggcccgggg caagcgctcg ctagtgctgg acctgaagca 180
gccgcgggga gccgcgctgc tggggcgctc gtgcaagcgg tcggatgtgc tgctggagcc 240
cttccgccgc ggtgtcatgg agaaactcca gctgggccc gagattctgc agcgggaaaa 300
tccaaggctt atttatgcca ggctgagtgg atttggccag tcaggaagct tctgccggtt 360
agctggccac gatatcaact atttggcttt gtcaggtgtt ctctcaaaaa ttggcagaag 420
tggtgagaat ccgtatgcc cgtgaatct cctggctgac tttgctggtg gtggccttat 480
gtgtgcaact ggcattataa tggctctttt tgaccgcaca cgcactgaca agggtcaggt 540
cattgatgca aatatggtgg aaggaacagc atatttaagt tcttttctgt ggaaaactca 600
gaaatcgagt ctgtgggaag cacctcgagg acagaacatg ttggatggtg gagcaccttt 660
ctatacgact tacaggacag cagatgggga attcatggct gttggagcaa tagaaccoca 720
gttctacgag ctgctgatca aaggacttgg actaaagtct gatgaacttc ccaatcagat 780
gagcatggat gattggccag aaatgaagaa gaagtttgca gatgtatttg caaagaagac 840
gaaggcagag tgggtgcaaa tctttgacgg cacagatgcc tgtgtgactc cggttctgac 900
ttttgaggag gttgttcac atgatacaaa caaggaacgg ggctcgttta tcaccagtga 960
ggagcaggac gtgagccccc gccctgcacc tctgctgtta aacaccccag ccatcccttc 1020
tttcaaaagg gaccccttca taggagaaca cactgaggag atacttgaag aatttggatt 1080
cagccgcgaa gagatttatc agcttaactc agataaaatc attgaaagta ataaggtaaa 1140
agctagtctc taacttccag gccacggct caagtgaatt tgaatactgc atttacagt 1200
tagagtaaca cataacattg tatgcatgga aacatggagg aacagtatta cagtgtccta 1260
ccactcta at caagaaaaga attacagact ctgattctac agtgatgatt gaattctaaa 1320
aatgggttatc attagggctt ttgatttata aaactttggg tacttatact aaattatggt 1380
agttattctg ccttccagtt tgcttgatat atttgttgat attaagattc ttgacttata 1440
ttttgaatgg gttctagtga aaaaggaatg atatatctt gaagacatcg atatacat 1500
atttacactc ttgattctac aatgtagaaa atgaggaaat gccacaaatt gtatggtgat 1560
aaaagtcacg tgaacaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
a

```

```

<210> 108
<211> 382
<212> PRT
<213> Homo sapien

```

```

<400> 108
Met Ala Leu Gln Gly Ile Ser Val Met Glu Leu Ser Gly Leu Ala Pro
1      5      10      15
Gly Pro Phe Cys Ala Met Val Leu Ala Asp Phe Gly Ala Arg Val Val
20     25     30
Arg Val Asp Arg Pro Gly Ser Arg Tyr Asp Val Ser Arg Leu Gly Arg
35     40     45
Gly Lys Arg Ser Leu Val Leu Asp Leu Lys Gln Pro Arg Gly Ala Ala
50     55     60
Val Leu Arg Arg Leu Cys Lys Arg Ser Asp Val Leu Leu Glu Pro Phe
65     70     75     80
Arg Arg Gly Val Met Glu Lys Leu Gln Leu Gly Pro Glu Ile Leu Gln
85     90     95
Arg Glu Asn Pro Arg Leu Ile Tyr Ala Arg Leu Ser Gly Phe Gly Gln
100    105    110
Ser Gly Ser Phe Cys Arg Leu Ala Gly His Asp Ile Asn Tyr Leu Ala
115    120    125
Leu Ser Gly Val Leu Ser Lys Ile Gly Arg Ser Gly Glu Asn Pro Tyr
130    135    140

```

Ala Pro Leu Asn Leu Leu Ala Asp Phe Ala Gly Gly Gly Leu Met Cys
 145 150 155 160
 Ala Leu Gly Ile Ile Met Ala Leu Phe Asp Arg Thr Arg Thr Asp Lys
 165 170 175
 Gly Gln Val Ile Asp Ala Asn Met Val Glu Gly Thr Ala Tyr Leu Ser
 180 185 190
 Ser Phe Leu Trp Lys Thr Gln Lys Ser Ser Leu Trp Glu Ala Pro Arg
 195 200 205
 Gly Gln Asn Met Leu Asp Gly Gly Ala Pro Phe Tyr Thr Thr Tyr Arg
 210 215 220
 Thr Ala Asp Gly Glu Phe Met Ala Val Gly Ala Ile Glu Pro Gln Phe
 225 230 235 240
 Tyr Glu Leu Leu Ile Lys Gly Leu Gly Leu Lys Ser Asp Glu Leu Pro
 245 250 255
 Asn Gln Met Ser Met Asp Asp Trp Pro Glu Met Lys Lys Lys Phe Ala
 260 265 270
 Asp Val Phe Ala Lys Lys Thr Lys Ala Glu Trp Cys Gln Ile Phe Asp
 275 280 285
 Gly Thr Asp Ala Cys Val Thr Pro Val Leu Thr Phe Glu Glu Val Val
 290 295 300
 His His Asp His Asn Lys Glu Arg Gly Ser Phe Ile Thr Ser Glu Glu
 305 310 315 320
 Gln Asp Val Ser Pro Arg Pro Ala Pro Leu Leu Leu Asn Thr Pro Ala
 325 330 335
 Ile Pro Ser Phe Lys Arg Asp Pro Phe Ile Gly Glu His Thr Glu Glu
 340 345 350
 Ile Leu Glu Glu Phe Gly Phe Ser Arg Glu Glu Ile Tyr Gln Leu Asn
 355 360 365
 Ser Asp Lys Ile Ile Glu Ser Asn Lys Val Lys Ala Ser Leu
 370 375 380

<210> 109

<211> 1524

<212> DNA

<213> Homo sapien

<400> 109

```

ggcacgaggc tgcgccaggg cctgagcgga ggcgggggca gcctcgccag cgggggcccc 60
gggcctggcc atgcctcact gagccagcgc ctgcgcctct acctcgccga cagctggaac 120
cagtgcgacc tagtggtctt cactgcttc ctctgggcg tgggctgccg gctgaccccg 180
ggtttgtagc acctgggccc cactgtcttc tgcctcgact tcatggtttt cacggtgcgg 240
ctgcttcaca tcttcacggg caacaaacag ctggggccca agatcgatcat cgtgagcaag 300
atgatgaagg acgtgttctt ctctctcttc ttctcgggc tgtggctggg agcctatggc 360
gtggccacgg aggggctcct gaggccacgg gacagtgact tcccaagtat cctgcgccgc 420
gtcttctacc gtccctacct gcagatcttc gggcagattc cccaggagga catggacgtg 480
gccctcatgg agcacagcaa ctgctcgtcg gagcccggt tctgggcaca cctcctggg 540
gcccgaggcg gcacctgcgt ctcccagtat gccaaactggc tgggtggtgct gctcctcgtc 600
atcttctctg tctgtggcaa catcctgctg gtcaacttgc tcattgccat gttcagttac 660
acattcgga aagtacaggg caacagcgat ctctactgga aggcgcagcg ttaccgctc 720
atccgggaat tccactctcg gcccgcgctg gcccgcctt ttatcgatcat ctcccacttg 780
cgctcctctg tcaggcaatt gtgcaggcga ccccgagcc cccagccgtc ctcccggcc 840

```



```
<210> 110
<211> 3410
<212> DNA
<213> Homo sapien
```

<400> 110						
gggaaccagc	ctgcacgcgc	tggctccggg	tgacagccgc	gcgcctcggc	caggatctga	60
gtgatgagac	gtgtccccac	tgaggtgcc	cacagcagca	ggtgttgagc	atgggctgag	120
aagctggacc	ggcaccaaaag	ggctggcaga	aatgggcgcc	tggctgattc	ctaggcagtt	180
ggcggcagca	aggaggagag	gccgcagctt	ctggagcaga	gccgagacga	agcagttctg	240
gagtgcctga	acggccccct	gagccctacc	cgcttgcccc	actatggtcc	agaggctgtg	300
ggtgagccgc	ctgctgcggc	accggaaaagc	ccagctcttg	ctggtcaacc	tgctaacctt	360
tggcctggag	gtgtgttttg	ccgcaggcat	cacctatgtg	ccgcctctgc	tgctggaagt	420
gggggtagag	gagaagttca	tgacctagg	gctgggcatt	ggtccagtgc	tgggcctgg	480
ctgtgtcccg	ctcctaggct	cagccagtga	ccactggcgt	ggacgctatg	gccgccgccg	540
gcccttcac	tgggcactgt	ccttgggcat	cctgctgagc	ctctttctca	tcccaagggc	600
cggctggcta	gcagggctgc	tgtgcccgga	tcccaggccc	ctggagctgg	cactgctcat	660
cctgggcgtg	gggctgctgg	acttctgtgg	ccaggtgtgc	ttactccac	tggaggccct	720
gctctctgac	ctcttccggg	accgcgacca	ctgtcgccag	gcctactctg	tctatgcctt	780
catgatcagt	cttgggggct	gcctgggcta	cctcctgcct	gccattgact	gggacaccag	840
tgccctggcc	ccctacctgg	gcacccagga	ggagtgcctc	tttggcctgc	tcaccctcat	900
cttccctcac	tgcgtagcag	ccacactgct	ggtggctgag	gaggcagcgc	tgggccccac	960
cgagccagca	gaagggctgt	cggccccctc	cttgtcgccc	cactgctgtc	catgccgggc	1020
ccgcttggt	ttccggaacc	tgggcgcctt	gcttccccgg	ctgcaccagc	tgtgctgcgc	1080
catgccccgc	accctgcgcc	ggctcttcgt	ggctgagctg	tgcagctgga	tggcactcat	1140
gaccttcacg	ctgtttttaca	cggatttcgt	gggcgagggg	ctgtaccagg	gcgtgccag	1200
agctgagccg	ggcaccgagg	cccggagaca	ctatgatgaa	ggcgttcgga	tgggcagcct	1260
ggggctgttc	ctgcagtgcg	ccatctccct	ggtcttctct	ctggtcatgg	accggctgg	1320
gcagcgattc	ggcactcgag	cagtctatct	ggccagtgtg	gcagctttcc	ctgtggctgc	1380
cggtgccaca	tgctgtgcc	acagtgtggc	cgtggtgaca	gcttcagccg	ccctcacccg	1440
gttcaccttc	tcagccctgc	agatcctgcc	ctacacactg	gcctccctct	accaccggga	1500
gaagcaggtg	ttcctgcccc	aataccgagg	ggacactgga	ggtgctagca	gtgaggacag	1560
cctgatgacc	agcttcctgc	caggccctaa	gcctggagct	cccttcctta	atggacaagt	1620
gggtgctgga	ggcagtggcc	tgctccacc	tccacccgcg	ctctgcgggg	cctctgctg	1680
tgatgtctcc	gtacgtgtgg	tgggtgggtga	gcccaccgag	gccagggtgg	ttccgggcgc	1740
gggcatctgc	ctggacctcg	ccatcctgga	tagtgcttcc	ctgctgtccc	aggtggcccc	1800
atccctgttt	atgggctcca	ttgtccagct	cagccagtct	gtcactgcct	atatggtgtc	1860
tgccgcaggc	ctgggtctgg	tcgccattta	ctttgctaca	caggtagtat	ttgacaagag	1920


```
<210> 113
<211> 553
<212> PRT
<213> Homo sapien
```

<400> 113'

Met	Val	Gln	Arg	Leu	Trp	Val	Ser	Arg	Leu	Leu	Arg	His	Arg	Lys	Ala
1				5					10					15	
Gln	Leu	Leu	Leu	Val	Asn	Leu	Leu	Thr	Phe	Gly	Leu	Glu	Val	Cys	Leu
			20					25					30		
Ala	Ala	Gly	Ile	Thr	Tyr	Val	Pro	Pro	Leu	Leu	Leu	Glu	Val	Gly	Val
		35					40					45			
Glu	Glu	Lys	Phe	Met	Thr	Met	Val	Leu	Gly	Ile	Gly	Pro	Val	Leu	Gly
	50					55					60				
Leu	Val	Cys	Val	Pro	Leu	Leu	Gly	Ser	Ala	Ser	Asp	His	Trp	Arg	Gly
65					70					75				80	
Arg	Tyr	Gly	Arg	Arg	Arg	Pro	Phe	Ile	Trp	Ala	Leu	Ser	Leu	Gly	Ile
				85					90					95	
Leu	Leu	Ser	Leu	Phe	Leu	Ile	Pro	Arg	Ala	Gly	Trp	Leu	Ala	Gly	Leu
			100					105					110		
Leu	Cys	Pro	Asp	Pro	Arg	Pro	Leu	Glu	Leu	Ala	Leu	Leu	Ile	Leu	Gly
		115					120					125			
Val	Gly	Leu	Leu	Asp	Phe	Cys	Gly	Gln	Val	Cys	Phe	Thr	Pro	Leu	Glu
	130					135					140				
Ala	Leu	Leu	Ser	Asp	Leu	Phe	Arg	Asp	Pro	Asp	His	Cys	Arg	Gln	Ala
145					150					155					160
Tyr	Ser	Val	Tyr	Ala	Phe	Met	Ile	Ser	Leu	Gly	Gly	Cys	Leu	Gly	Tyr
				165					170					175	
Leu	Leu	Pro	Ala	Ile	Asp	Trp	Asp	Thr	Ser	Ala	Leu	Ala	Pro	Tyr	Leu
			180					185					190		
Gly	Thr	Gln	Glu	Glu	Cys	Leu	Phe	Gly	Leu	Leu	Thr	Leu	Ile	Phe	Leu
		195					200					205			
Thr	Cys	Val	Ala	Ala	Thr	Leu	Leu	Val	Ala	Glu	Glu	Ala	Ala	Leu	Gly
	210					215					220				
Pro	Thr	Glu	Pro	Ala	Glu	Gly	Leu	Ser	Ala	Pro	Ser	Leu	Ser	Pro	His
225					230					235					240
Cys	Cys	Pro	Cys	Arg	Ala	Arg	Leu	Ala	Phe	Arg	Asn	Leu	Gly	Ala	Leu
				245					250					255	
Leu	Pro	Arg	Leu	His	Gln	Leu	Cys	Cys	Arg	Met	Pro	Arg	Thr	Leu	Arg
			260					265					270		
Arg	Leu	Phe	Val	Ala	Glu	Leu	Cys	Ser	Trp	Met	Ala	Leu	Met	Thr	Phe
		275					280					285			
Thr	Leu	Phe	Tyr	Thr	Asp	Phe	Val	Gly	Glu	Gly	Leu	Tyr	Gln	Gly	Val
	290					295					300				
Pro	Arg	Ala	Glu	Pro	Gly	Thr	Glu	Ala	Arg	Arg	His	Tyr	Asp	Glu	Gly
305					310					315					320
Val	Arg	Met	Gly	Ser	Leu	Gly	Leu	Phe	Leu	Gln	Cys	Ala	Ile	Ser	Leu
				325					330					335	
Val	Phe	Ser	Leu	Val	Met	Asp	Arg	Leu	Val	Gln	Arg	Phe	Gly	Thr	Arg
			340					345					350		
Ala	Val														

355 360 365
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 370 375 380
 Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr Leu Ala
 385 390 395 400
 Ser Leu Tyr His Arg Glu Lys Gln Val Phe Leu Pro Lys Tyr Arg Gly
 405 410 415
 Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser Leu Met Thr Ser Phe Leu
 420 425 430
 Pro Gly Pro Lys Pro Gly Ala Pro Phe Pro Asn Gly His Val Gly Ala
 435 440 445
 Gly Gly Ser Gly Leu Leu Pro Pro Pro Pro Ala Leu Cys Gly Ala Ser
 450 455 460
 Ala Cys Asp Val Ser Val Arg Val Val Val Gly Glu Pro Thr Glu Ala
 465 470 475 480
 Arg Val Val Pro Gly Arg Gly Ile Cys Leu Asp Leu Ala Ile Leu Asp
 485 490 495
 Ser Ala Phe Leu Leu Ser Gln Val Ala Pro Ser Leu Phe Met Gly Ser
 500 505 510
 Ile Val Gln Leu Ser Gln Ser Val Thr Ala Tyr Met Val Ser Ala Ala
 515 520 525
 Gly Leu Gly Leu Val Ala Ile Tyr Phe Ala Thr Gln Val Val Phe Asp
 530 535 540
 Lys Ser Asp Leu Ala Lys Tyr Ser Ala
 545 550

<210> 114

<211> 241

<212> PRT

<213> Homo sapien

<400> 114

Met Gln Cys Phe Ser Phe Ile Lys Thr Met Met Ile Leu Phe Asn Leu
 1 5 10 15
 Leu Ile Phe Leu Cys Gly Ala Ala Leu Leu Ala Val Gly Ile Trp Val
 20 25 30
 Ser Ile Asp Gly Ala Ser Phe Leu Lys Ile Phe Gly Pro Leu Ser Ser
 35 40 45
 Ser Ala Met Gln Phe Val Asn Val Gly Tyr Phe Leu Ile Ala Ala Gly
 50 55 60
 Val Val Val Phe Ala Leu Gly Phe Leu Gly Cys Tyr Gly Ala Lys Thr
 65 70 75 80
 Glu Ser Lys Cys Ala Leu Val Thr Phe Phe Phe Ile Leu Leu Leu Ile
 85 90 95
 Phe Ile Ala Glu Val Ala Ala Ala Val Val Ala Leu Val Tyr Thr Thr
 100 105 110
 Met Ala Glu His Phe Leu Thr Leu Leu Val Val Pro Ala Ile Lys Lys
 115 120 125
 Asp Tyr Gly Ser Gln Glu Asp Phe Thr Gln Val Trp Asn Thr Thr Met
 130 135 140
 Lys Gly Leu Lys Cys Cys Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp

```

<210> 115
<211> 366
<212> DNA
<213> Homo sapien

<400> 115
gctctttctc tccctcctc tgaatttaat tctttcaact tgcaatttgc aaggattaca      60
catttcactg tgatgtatat tgtgttgcaa aaaaaaaaaa gtgtctttgt ttaaaattac      120
ttggtttgtg aatccatctt gctttttccc cattggaact agtcattaac ccatctctga      180
actggtagaa aaacatctga agagctagtc tatcagcatc tgacagggtga attggatggg      240
tctcagaacc atttcaccca gacagcctgt ttctatcctg tttataaat tagtttgggt      300
tctctacatg cataacaaac cctgctccaa tctgtcacat aaaagtctgt gacttgaagt      360
ttagtc

<210> 116
<211> 282
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

<400> 116
acaaagatga accatttcct atattatagc aaaattaaaa tctacccgta ttctaattatt      60
gagaaatgag atnaaacaca atnttataaa gtctacttag agaagatcaa gtgacctcaa      120
agactttact attttcatat ttttaagacac atgatttatc ctatttttagt aacctgggtc      180
atacggttaa caaaggataa tgtgaacagc agagaggatt tgttggcaga aaatctatgt      240
tcaatctnga actatctana tcacagacat ttctattcct tt                        282

<210> 117
<211> 305
<212> DNA
<213> Homo sapien

<220>

```

<400> 117

<210> 118

<212> DNA

$\langle 220 \rangle$

 $\langle 222 \rangle \quad (1) \dots (71)$

<400> 118

<210> 119

<211> 212

<212> DNA

<220>

 $\langle 222 \rangle \quad (1) \dots (212)$

<400> 119

<210> 120

<211> 90

<212> DNA

 $\langle 220 \rangle$ $\langle 222 \rangle \quad (1) \dots (90)$

<223> n = A, T, C or G

```
<210> 121
<211> 218
<212> DNA
<213> Homo sapien
```

```
<210> 122
<211> 171
<212> DNA
<213> Homo sapien
```

```
<210> 123
<211> 76
<212> DNA
<213> Homo sapien
```

```
<210> 124
<211> 131
<212> DNA
<213> Homo sapien
```


acctttcccc aaggccaatg tctgtgtgc taactggccg gctgcaggac agctgcaatt 60
 caatgtgctg ggtcatatgg aggggaggag actctaaaat agccaatttt attctcttgg 120
 ttaagatttg t 131

<210> 125
 <211> 432
 <212> DNA
 <213> Homo sapien

<400> 125
 actttatcta ctggctatga aatagatggg ggaaaattgc gttaccaact ataccactgg 60
 cttgaaaaag aggtgatagc tcttcagagg acttgtgact tttgetcaga tgetgaagaa 120
 ctacagtctg catttggcag aaatgaagat gaatttggat taaatgagga tgetgaagat 180
 ttgctcacc aaacaaaagt gaaacaactg agagaaaatt ttcaggaaaa aagacagtgg 240
 ctcttgaagt atcagtcact tttgagaatg tttcttagtt actgcatact tcatggatcc 300
 catggtgggg gtcttgcacg tgtaagaatg gaattgattt tgccttttgc agaattctcag 360
 caggaaacat cagaaccact attttctagc cctctgtcag agcaaaccct agtgctctc 420
 ctctttgctt gt 432

<210> 126
 <211> 112
 <212> DNA
 <213> Homo sapien

<400> 126
 acacaacttg aatagtaaaa tagaaactga gctgaaattt ctaattcact ttctaaccat 60
 agtaagaatg atatttcccc ccagggatca ccaaatttt ataaaaattt gt 112

<210> 127
 <211> 54
 <212> DNA
 <213> Homo sapien

<400> 127
 accacgaac cacaacaag atggaagcat caatccactt gccaaagcaca gcag 54

<210> 128
 <211> 323
 <212> DNA
 <213> Homo sapien

<400> 128
 acctcattag taattgtttt gttgtttcat ttttttctaa tgtctcccct ctaccagctc 60
 acctgagata acagaatgaa aatggaagga cagccagatt tctcctttgc tctctgctca 120
 ttctctctga agtctaggtt acccattttg gggaccatt ataggcaata aacacagttc 180
 ccaaagcatt tggacagttt cttgttgtgt tttagaatgg ttttcctttt tcttagcctt 240
 ttctgcaaaa aggtcactc agtcccttgc ttgtcagtg gactgggctc cccagggcct 300
 aggtgcctt cttttccatg tcc 323

<210> 129
 <211> 192

<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(192)
<223> n = A,T,C or G

<400> 129
acatacatgt gtgtatatatt ttaaatatca cttttgtatc actctgactt tttagcatatc 60
tgaaaacaca ctaacataat ttntgtgaac catgatcaga tacaacccaa atcattcatc 120
tagcacattc atctgtgata naaagatagg tgagtttcat ttcttccagc ttggccaatg 180
gataaacaac gt 192

<210> 130
<211> 362
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(362)
<223> n = A,T,C or G

<400> 130
ccctttttta tggaatgagt agactgtatg tttgaanatt tanccacaac ctctttgaca 60
tataatgacg caacaaaaag gtgctgttta gtcctatggt tcagtttatg cccttgacaa 120
gtttccattg tgttttgccg atcttctggc taatcgtggt atcctccatg ttattagtaa 180
ttctgtattc ctttttgcta acgcctggta gatgtaacct gctangaggc taactttata 240
cttattttaa agctcttatt ttgtgggtcat taaaatggca atttatgtgc agcactttat 300
tgcagcagga agcacgtgtg ggttggttgt aaagctcttt gctaatttta aaaagtaatg 360
gg 362

<210> 131
<211> 332
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(332)
<223> n = A,T,C or G

<400> 131
ctttttgaaa gatcgtgtcc actcctgtgg acatcttgtt ttaatggagt ttcccatgca 60
gtangactgg tatggttgca gctgtccaga taaaaacatt tgaagagctc caaaatgaga 120
gttctccagc gttgcctctg ctgctccaag tctcagcagc agcctctttt aggaggcatc 180
ttctgaacta gattaaggca gcttgtaaat ctgatgtgat ttggtttatt atccaactaa 240
cttccatctg ttatcactgg agaaagccca gactccccan gacnggtacg gattgtgggc 300
atanaaggat tgggtgaagc tggcgttgtg gt 332

<211> 350
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(350)
 <223> n = A,T,C or G

<400> 135
 acttanaacc atgcctagca catcagaatc cctcaaagaa catcagtata atcctataacc 60
 atancaagtg gtgactgggt aagcgtgcga caaagggtcag ctggcacatt acttgtgtgc 120
 aaacttgata cttttgttct aagtaggaac tagtatacag tncctaggan tgggtactcca 180
 ggggtgcccc caactcctgc agccgctcct ctgtgccagn ccctgnaagg aactttcgtc 240
 ccacctcaat caagccctgg gccatgctac ctgcaattgg ctgaacaaac gtttctgtgag 300
 ttcccaagga tgcaaagcct ggtgctcaac tcttggggcg tcaactcagt 350

<210> 136
 <211> 399
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(399)
 <223> n = A,T,C or G

<400> 136
 tgtaccgtga agacgacaga agttgcatgg cagggacagg gcagggccga ggccaggggt 60
 gctgtgattg tatccgaata ntctcgtga gaaaagataa tgagatgacg tgagcagcct 120
 gcagacttgt gtctgccttc aanaagccag acaggaaggc cctgcctgcc ttggctctga 180
 cctggcgggc agccagccag ccacaggtgg gcttcttctc tttgtggtga caacnccaag 240
 aaaactgcag agggccaggg tcaggtgtna gtgggtangt gaccataaaa caccaggtgc 300
 tcccaggaac ccgggcaaag gccatcccca cctacagcca gcatgccac tggcgtgatg 360
 ggtgcagang gatgaagcag ccagntgttc tgctgtggt 399

<210> 137
 <211> 165
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(165)
 <223> n = A,T,C or G

<400> 137
 actggtgtgg tnggggggtga tgctgggtgg anaagttgan gtgacttcan gatggtgtgt 60
 ggaggaagtg tgtgaacgta gggatgtaga ngttttggcc gtgctaaatg agcttcggga 120
 ttggctgggtc ccactggtgg tcaactgtcat tgggtggggt cctgt 165

<210> 138
 <211> 338
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(338)
 <223> n = A,T,C or G

<400> 138
 actcactgga atgccacatt cacaacagaa tcagaggtct gtgaaaacat taatggctcc 60
 ttaactttct cagtaagaat cagggacttg aaatggaaac gttaacagcc acatgcccac 120
 tgctgggcag tctcccatgc cttccacagt gaaagggctt gagaaaaatc acatccaatg 180
 tcatgtgttt ccagccacac caaaaggtgc ttgggggtgga gggctggggg catananggt 240
 cangcctcag gaagcctcaa gttccattca gttttgccac tgtacattcc ccatntttaa 300
 aaaaactgat gccttttttt ttttttttg taaaattc 338

<210> 139
 <211> 382
 <212> DNA
 <213> Homo sapien

<400> 139
 gggaaatcttg gtttttggca tctggtttgc ctatagccga ggccactttg acagaacaaa 60
 gaaagggact tcgagtaaga aggtgattta cagccagcct agtgcccga gtgaaggaga 120
 attcaaacag acctcgatcat tcttggtgtg agcctggctg gctcaccgcc tatcatctgc 180
 atttgcttta ctcaggtgct accggactct ggcccctgat gtctgtagtt tcacaggatg 240
 ccttatttgt cttctacacc ccacagggcc ccttacttct tcggatgtgt ttttaataat 300
 gtcagctatg tgcccacatc tcttcatgc cctccctccc tttcctacca ctgctgagtg 360
 gcctggaact tgtttaaagt gt 382

<210> 140
 <211> 200
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(200)
 <223> n = A,T,C or G

<400> 140
 accaaanctt ctttctgttg tgttngattt tactataggg gtttngcttn ttctaaanat 60
 acttttcatt taacancttt tgtaagtgt caggtgtcac ttgtctccat anaattattg 120
 ttttcacatt tcaacttgta tgtgtttgtc tcttanagca ttggtgaaat cacatatttt 180
 atattcagca taaaggagaa 200

<210> 141
 <211> 335
 <212> DNA

accttgattt cattgctgct ctgatggaaa cccaactatc taatttagct aaaacatggg 60
cacttaaagt tggtcagtgt ttggacttgt taactantgg catctttggg t 111

<210> 151
<211> 196
<212> DNA
<213> Homo sapien

<400> 151
agcgcgccag gtcattatga acattccaga tacctatcat tactcgatgc tgttgataac 60
agcaagatgg ctttgaactc agggtcacca ccagctattg gaccttacta tgaaaaccat 120
ggataccaac cggaacaccc ctatcccgcg cagcccactg tggccccac tgtctacgag 180
gtgcatccgg ctcatg 196

<210> 152
<211> 132
<212> DNA
<213> Homo sapien

<400> 152
acagcacttt cacatgtaag aaggagagaaa ttctaaatg taggagaaag ataacagAAC 60
cttccccctt tcatctagtg gtggaaacct gatgctttat gttgacagga atagaaccag 120
gagggagttt gt 132

<210> 153
<211> 285
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (285)
<223> n = A,T,C or G

<400> 153
acaanaccca nganaggcca ctggccgtgg tgtcatggcc tccaaacatg aaagtgtcag 60
cttctgctct tatgtcctca tctgacaact ctttaccatt tttatcctcg ctgagcagga 120
gcacatcaat aaagtccaaa gtcttgact tggccttggc ttggaggaag tcatcaacac 180
cctggctagt gaggggtgcg cgccgtcctt ggatgacggc atctgtgaag tctgtcacca 240
gtctgcaggc cctgtggaag cgccgtccac acggagtnag gaatt 285

<210> 154
<211> 333
<212> DNA
<213> Homo sapien

<400> 154
accacagtcc tgttgggcca gggcttcatg accctttctg tgaaaagcca tattatcacc 60
accccaaatt ttctcttaa tatctttaac tgaaggggtc agcctcttga ctgcaaagac 120
cctaagccgg ttacacagct aactcccact ggccttgatt tgtgaaattg ctgctgcctg 180
attggcacag gagtccaagg tgttcagctc cctcctccg tggaaacgaga ctctgattg 240

<223> n = A,T,C or G

<400> 158

acccactggt	cttggaacaa	cccatcctta	atacgatgat	ttttctgtcg	tgtgaaaatg	60
aanccagcag	gctgccccta	gtcagtcctt	ccttcacagag	aaaaagagat	ttgagaaagt	120
gcctgggttaa	ttcaccatta	atttctctcc	ccaaactctc	tgagtcttcc	cttaatat	180
ctgggtggttc	tgaccaaagc	aggatcatggt	ttgttgagca	tttgggatcc	cagtgaagta	240
natgtttgta	gccttgcata	cttagccctt	cccacgcaca	aacggagtgg	cagagtgggtg	300
ccaaccctgt	tttcccagtc	cacgtagaca	gattcacagt	gcggaattct	ggaagctgga	360
nacagacggg	ctctttgcag	agccgggact	ctgagangga	catgagggcc	tctgcctctg	420
tggttcattct	ctgatgtcct	gt				442

<210> 159

<211> 498

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (498)

<223> n = A,T,C or G

<400> 159

acttcaggt	aacgttggtg	tttccgttga	gcctgaactg	atgggtgacg	ttgtagggttc	60
tccaacaaga	actgaggttg	cagagcgggt	agggagagag	gctgttccag	ttgcacctgg	120
gctgctgtgg	actgttggtg	attcctcact	acggcccaag	gttggtggaac	tggcanaaag	180
gtgtgtgtgt	gganttgagc	tccggcggct	gtggtagggt	gtgggctctt	caacaggggc	240
tgctgtgggtg	ccgggagtg	aangtggtgt	gtcacttgag	cttggccagc	tctggaaagt	300
antanattct	tcttgaaaggc	cagcgttgt	ggagctggca	ngggtcantg	ttgtgtgtaa	360
cgaaccagtg	ctgctgtggg	tgggtgtana	tcttcacaa	agcctgaagt	tatggtgtcn	420
tcaggtaana	atgtggtttc	agtgtccctg	ggcngctgtg	gaaggttgta	nattgtcacc	480
aagggaataa	gctgtggt					498

<210> 160

<211> 380

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (380)

<223> n = A,T,C or G

<400> 160

acctgcatcc	agcttccctg	ccaaactcac	aaggagacat	caacctctag	acagggaaac	60
agcttcagga	tacttccagg	agacagagcc	accagcagca	aaacaaatat	tcccatgcct	120
ggagcatggc	atagaggaag	ctganaaatg	tggggtctga	ggaagccatt	tgagtctggc	180
cactagacat	ctcatcagcc	acttgtgtga	agagatgcc	catgacccca	gatgcctctc	240
ccacccttac	ctccatctca	cacacttgag	ctttccactc	tgtataattc	taacatcctg	300
gagaaaaatg	gcagtttgac	cgaacctgtt	cacaacggta	gaggctgatt	tctaacgaaa	360
cttgtagaat	gaagcctgga					380

<210> 161
 <211> 114
 <212> DNA
 <213> Homo sapien

<400> 161
 actccacatc ccctctgagc aggcggttgt cgttcaaggt gtatttggcc ttgcctgtca 60
 cactgtccac tggcccctta tccacttggg gcttaatccc tcgaaagagc atgt 114

<210> 162
 <211> 177
 <212> DNA
 <213> Homo sapien

<400> 162
 actttctgaa tcgaatcaaa tgatacttag tgtagtttta atatcctcat atatatcaaa 60
 gttttactac tctgataatt ttgtaaacca ggtaaccaga acatccagtc atacagcttt 120
 tgggtgatata taacttggca ataaccagc ctggtgatac ataaaactac tcactgt 177

<210> 163
 <211> 137
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(137)
 <223> n = A,T,C or G

<400> 163
 catttataca gacaggcgtg aagacattca cgacaaaaac gcgaaattct atcccgtagc 60
 canagaaggc agctacggct actcctacat cctggcgtgg gtggccttcg cctgcacctt 120
 catcagcggc atgatgt 137

<210> 164
 <211> 469
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(469)
 <223> n = A,T,C or G

<400> 164
 cttatcacia tgaatgttct cctgggcagc gttgtgatct ttgccacctt cgtgacttta 60
 tgcaatgcat catgctatct catacctaat gagggagttc caggagattc aaccaggaaa 120
 tgcattggatc tcaaaggaaa caaacaccca ataaactcgg agtggcagac tgacaactgt 180
 gagacatgca cttgtctacg aacagaaatt tcatgttgca cccttgtttc tacacctgtg 240
 gggttatgaca aagacaactg ccaaagaatc ttcaagaagg aggactgcaa gtatatcgtg 300

<400> 170

acctgtgggc	tgggtctgta	tgcctgtgcc	ggctgtctgaa	agggagttca	gaggtggagc	60
tcaaggagct	ctgcaggcat	tttccaanc	ctctccanag	canagggagc	aacctacact	120
ccccgctaga	aagacaccag	attggagtc	tgggaggggg	agttgggggtg	ggcatttgat	180
gtatacttgt	cacctgaatg	aangagccag	agaggaanga	gacgaanatg	anattggcct	240
tcaaagctag	gggtctggca	ggtgga				266

<210> 171

<211> 1248

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(1248)

<223> n = A,T,C or G

<400> 171

ggcagccaaa	tcataaacgg	cgaggactgc	agcccgcaact	cgcagccctg	gcaggcggca	60
ctgggtcatgg	aaaacgaatt	gttctgctcg	ggcgctcctgg	tgcatecgca	gtgggtgctg	120
tcagccgcac	actgtttcca	gaagtgaagt	cagagctcct	acaccatcgg	gctgggcctg	180
cacagtcttg	aggccgacca	agagccaggg	agccagatgg	tggaggccag	cctctccgta	240
cggcaccag	agtacaacag	acccttgctc	gctaacgacc	tcattgctcat	caagttggac	300
gaatccgtgt	ccgagtctga	caccatccgg	agcatcagca	ttgcttcgca	gtgcccacc	360
gcgggggaact	cttgccctgt	ttctggctgg	ggtctgctgg	cgaacggcag	aatgcctacc	420
gtgctgcagt	gcgtgaacgt	gtcgggtggtg	tctgaggagg	tctgcagtaa	gctctatgac	480
ccgctgtacc	accccagcat	gttctgcgcc	ggcggagggc	aagaccagaa	ggactcctgc	540
aacggtgact	ctggggggcc	cctgatctgc	aacgggtact	tgcagggcct	tgtgtctttc	600
ggaaaagccc	cgtgtggcca	agttggcggtg	ccaggtgtct	acaccaacct	ctgcaaattc	660
actgagtggga	tagagaaaac	cgtccaggcc	agttaactct	ggggactggg	aacccatgaa	720
attgaccccc	aaatacatcc	tgcggaagga	attcaggaat	atctgttccc	agccccctct	780
ccctcaggcc	caggagtcca	ggccccccagc	ccctcctccc	tcaaaccaag	ggtacagatc	840
cccagccctt	cctccctcag	acccaggagt	ccagaccccc	cagccccctc	tcctcagac	900
ccaggagtcc	agccccctct	ccctcagacc	caggagtcca	gacccccccag	ccccctctcc	960
ctcagaccca	ggggtccagg	cccccaaccc	ctcctccctc	agactcagag	gtccaagccc	1020
ccaacccntc	attccccaga	cccagaggtc	cagggtccag	ccccctntcc	ctcagaccca	1080
gcggtccaat	gccacctaga	ctntccctgt	acacagtgcc	cccttggtggc	acgttgaccc	1140
aaccttacca	gttggttttt	catttttngt	ccctttcccc	tagatccaga	aataaagttt	1200
aagagaagng	caaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaa		1248

<210> 172

<211> 159

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(159)

<223> Xaa = Any Amino Acid

<400> 172
 Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro
 1 5 10 15
 Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser
 20 25 30
 Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr
 35 40 45
 Ala Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly
 50 55 60
 Arg Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu
 65 70 75 80
 Glu Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe
 85 90 95
 Cys Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser
 100 105 110
 Gly Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe
 115 120 125
 Gly Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn
 130 135 140
 Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 145 150 155

<210> 173
 <211> 1265
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)...(1265)
 <223> n = A,T,C or G

<400> 173
 ggcagcccgcc actcgagcc ctggcaggcg gcactgggtca tggaaaacga attgttctgc 60
 tcgggcgtcc tgggtgcatcc gcagtgggtg ctgtcagccg cacactgttt ccagaactcc 120
 tacaccatcg ggctgggcct gcacagtctt gaggcgcgacc aagagccagg gagccagatg 180
 gtggaggcca gcctctccgt acggcaccca gactacaaca gaccttgct cgctaacgac 240
 ctcatgctca tcaagttgga cgaatccgtg tccgagtctg acaccatccg gagcatcagc 300
 attgcttcgc agtgccctac cgcggggaac tcttgctctg tttctggctg ggggtctgctg 360
 gcgaacgggtg agctcacggg tgtgtgtctg ccctcttcaa ggaggtctct tgcaccagtcg 420
 cgggggctga cccagagctc tgcgtcccag gcagaatgcc taccgtgctg cagtgcgtga 480
 acgtgtcggt ggtgtctgag gaggtctgca gtaagctcta tgaccgctg taccacccca 540
 gcatgttctg cgcggcgga gggcaagacc agaaggactc ctgcaacggt gactctgggg 600
 ggccccgat ctgcaacggg tacttgacgg gccttggtg tttcggaata gccccgtgtg 660
 gccaaattgg cgtgccaggt gtctacacca acctctgcaa attcactgag tggatagaga 720
 aaaccgtcca ggccagttaa ctctggggac tgggaaccca tgaaattgac ccccaaatac 780
 atcctgcgga aggaattcag gaatatctgt tcccagcccc tctcctctca ggcccaggag 840
 tccaggcccc cagccccctc tccctcaaac caagggtaca gatccccagc cctcctctcc 900
 tcagacccag gactccagac cccccagccc ctctcctctc agaccagga gtccagcccc 960
 tctcctctca gaccaggag tccagacccc ccagccccctc ctccctcaga cccaggggtt 1020
 gagggcccca accctctctc cttcagagtc agagggtccaa gcccacaacc cctcgttccc 1080


```

cagacccaga ggttnnaggtc ccagcccctc ttcctcaga cccagnnggtc caatgccacc 1140
tagatTTTTc ctgnacacag tgcccccttg tggngangttg acccaacctt accagttggt 1200
ttttcatttt tngtcccttt cccctagatc cagaaataaa gtttaagaga ngngcaaaaa 1260
aaaaa 1265

```

```

<210> 174
<211> 1459
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1459)
<223> n = A,T,C or G

```

```

<400> 174
ggtcagccgc acactgtttc cagaagtgag tgcagagctc ctacaccatc gggctggggcc 60
tgcacagtct tgaggccgac caagagccag ggagccagat ggtggaggcc agcctctccg 120
tacggcacc cagagtacaac agacccttgc tcgctaacga cctcatgctc atcaagttgg 180
acgaatccgt gtccgagtct gacaccatcc ggagcatcag cattgcttcg cagtgcctta 240
ccgcggggaa ctcttgctc gtttctggct ggggtctgct ggcgaacggt gagctcacgg 300
gtgtgtgtct gccctcttca aggaggtcct ctgccagtc gcgggggctg acccagagct 360
ctgcgtccca ggcagaatgc ctaccgtgct gcagtgcgtg aacgtgtcgg tgggtgtctga 420
ngaggtctgc antaagctct atgaccgct gtaccacccc ancatgttct gcgcgggagg 480
agggcaagac cagaaggact cctgcaacgt gagagagggg aaaggggagg gcaggcgact 540
caggaagggg tggagaaggg ggagacagag acacacaggg ccgcatggcg agatgcagag 600
atggagagac acacagggag acagtgacaa ctagagagag aaactgagag aaacagagaa 660
ataaacacag gaataaagag aagcaaagga agagagaaac agaaacagac atggggaggc 720
agaaacacac acacatagaa atgcagttga ccttccaaca gcatggggcc tgaggcggt 780
gacctccacc caatagaaaa tctctttata acttttgact ccccaaaaac ctgactagaa 840
atagcctact gttgacgggg agccttacca ataacataaa tagtcgattt atgcatacgt 900
tttatgcatt catgatatac ctttgttgga attttttgat atttctaagc tacacagttc 960
gtctgtgaat ttttttaaat tgttgcaact ctctaaaat ttttctgatg tgtttattga 1020
aaaaatccaa gtataagtgg acttggtgcat tcaaaccagg gttgttcaag ggtcaactgt 1080
gtaccagag ggaaacagtg acacagattc atagaggtga aacacgaaga gaaacaggaa 1140
aaatcaagac tctacaaaga ggctgggcag ggtggctcat gcctgtaatc ccagcacttt 1200
gggaggcgag gcaggcagat cacttgaggt aaggagttca agaccagcct ggccaaaatg 1260
gtgaaatcct gtctgtacta aaaatacaaa agttagctgg atatggtggc aggcgcctgt 1320
aatccagct acttgggagg ctgaggcagg agaattgctt gaatatggga ggcagaggtt 1380
gaagtgagtt gagatcacac cactatactc cagctggggc aacagagtaa gactctgtct 1440
caaaaaaaaa aaaaaaaaaa 1459

```

```

<210> 175
<211> 1167
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1167)
<223> n = A,T,C or G

```

<400> 175

```

ggcagccct ggcaggcggc actggtcagt gaaaacgaat tggtctgctc gggcgctctg      60
gtgcatccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg      120
ctgggcctgc acagtcttga ggcgaccaa gagccaggga gccagatggt ggaggccagc      180
ctctccgtac ggcacccaga gtacaacaga ctcttgctcg ctaacgacct catgctcatc      240
aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag      300
tgccctaccg cggggaactc ttgctcgtn tctggctggg gtctgctggc gaacggcaga      360
atgctaccg tgctgcactg cgtgaacgtg tcgggtggtg ctgaggangt ctgcagtaag      420
ctctatgacc cgctgtacca cccagcatg ttctgcgcg gcggagggca agaccagaag      480
gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt      540
gtgtctttcg gaaaagcccc gtgtggccaa cttggcgtgc cagggtgtcta caccaacctc      600
tgcaaattca ctgagtggat agagaaaacc gtccagncca gttactctg gggactggga      660
acccatgaaa ttgaccccca aatacatcct gcggaangaa ttcaggaata tctgttccca      720
gccccctctc cctcaggccc aggagtccag gccccagcc cctcctcctt caaaccaagg      780
gtacagatcc ccagccctc ctccctcaga cccaggagtc cagaccccc agccctcnt      840
ccntcagacc caggagtcca gccccctc cntcagacgc aggagtccag accccccagc      900
ccntcntcgg tcagaccagc ggggtgcagg ccccaacccc tcntcntca gagtccagg      960
tccaagcccc caaccctcg ttccccagac ccagaggtnc aggtcccagc cctcctccc      1020
tcagaccagc cgggtccaat ccacctagan tntcctgta cacagtgcc ccttggtggca      1080
ngttgaccca acctaccag ttgggttttc attttttgtc cctttccctt agatccagaa      1140
ataaagtnta agagaagcgc aaaaaaa                                1167

```

<210> 176

<211> 205

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(205)

<223> Xaa = Any Amino Acid

<400> 176

```

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
 1           5           10          15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
 20          25          30
Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met Val
 35          40          45
Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Leu Leu Leu
 50          55          60
Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 65          70          75          80
Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly
 85          90          95
Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg Met
100         105         110
Pro Thr Val Leu His Cys Val Asn Val Ser Val Val Ser Glu Xaa Val
115         120         125
Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys Ala

```

130		135		140
Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly Gly				
145		150		155
Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly Lys				160
		165		170
Ala Pro Cys Gly Gln Leu Gly Val Pro Gly Val Tyr Thr Asn Leu Cys				175
		180		185
Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Xaa Ser				190
		195		200
				205

<210> 177
 <211> 1119
 <212> DNA
 <213> Homo sapien

<400> 177

gogcactcgc agccctggca ggcggcactg gtcattggaaa acgaattggt ctgctcgggc	60
gtcctggtgc atccgcagtg ggtgctgtca gccgcacact gtttcagaa ctctacacc	120
atcgggctgg gctgcacag tcttgaggcc gaccaagagc cagggagcca gatggtggag	180
gccagcctct ccgtacggca cccagagtac aacagaccct tgctcgctaa cgacctcatg	240
ctcatcaagt tggacgaatc cgtgtccgag tctgacacca tccggagcat cagcattgct	300
tgcagtgcc ctaccgcggg gaactcttgc ctctttctg gctggggtct gctggcgaac	360
gatgctgtga ttgccatcca gtcccagact gtgggaggct gggagtgtga gaagctttcc	420
caaccctggc agggttgtac catttcggca acttcagtg caaggacgtc ctgctgcac	480
ctcactgggt gctcactact gctcactgca tcaccggaa cactgtgatc aactagccag	540
caccatagtt ctccgaagtc agactatcat gattactgtg ttgactgtgc tgtctattgt	600
actaaccatg ccgatgttta ggtgaaatta gcgtcacttg gctcaacca tcttggtatc	660
cagttatcct cactgaattg agatttctg cttcagtgtc agccattccc acataatttc	720
tgacctacag aggtgaggga tcatatagct ctccaaggat gctggtactc cctcacaaa	780
ttcattttct ctgttgtagt gaaaggtgcg cctctggag cctcccaggg tgggtgtgca	840
ggtcacaatg atgaatgtat gatcgtgttc ccattacca aagccttta atccctcatg	900
ctcagtacac cagggcaggt ctagcatttc ttcatttagt gtatgctgtc cattcatgca	960
accacctcag gactcctgga ttctctgct agttgagctc ctgcatgctg cctccttggg	1020
gaggtgaggg agagggccca tggttcaatg ggatctgtgc agttgtaaca cattaggtgc	1080
ttaataaaca gaagctgtga tgttaaaaaa aaaaaaaaa	1119

<210> 178
 <211> 164
 <212> PRT
 <213> Homo sapien

<220>
 <221> VARIANT
 <222> (1) ... (164)
 <223> Xaa = Any Amino Acid

<400> 178

Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp
1 5 10 15
Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
20 25 30

<400> 181

tccytttgkt	nagggttkkg	agacamceck	agacctwaan	ctgtgtcaca	gacttcyngg	60
aatgtttagg	cagtgc tagt	aatttcytcg	taatgattct	gttattactt	tcctnattct	120
ttattcctct	ttcttctgaa	gattaatgaa	gttgaaaatt	gaggtggata	aatacaaaaa	180
ggtagtgtga	tagtataagt	atctaagtgc	agatgaaagt	gtgttatata	tatccattca	240
aaattatgca	agttagtaat	tactcaggg	taactaaatt	actttaatat	gctgttgaa	300
ctactctgtt	ccttggttag	aaaaaattat	aaacaggact	ttgttagttt	gggaagccaa	360
attgataata	ttctatgttc	taaaagttgg	gctatacata	aattattaag	aaatatggaw	420
ttttattccc	aggaatatgg	kgttcatttt	atgaatatta	cscrggatag	awgtwtgagt	480
aaaaycagtt	ttggtwaata	ygtwaatatg	tcmtaaataa	acaakgcttt	gacttatttc	540
caaaaaaaaa	aaaaaaaa					558

<210> 182

<211> 479

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(479)

<223> n = A,T,C or G

<400> 182

acagggwttk	grggatgcta	agseccercga	rwtygtttga	tccaaccctg	gcttwttttc	60
agaggggaaa	atggggccta	gaagttacag	mecatytagy	tggtgcgmtg	gcacccctgg	120
cstcacacag	astcccgagt	agctgggact	acaggcacac	agtcactgaa	gcaggccctg	180
ttwgcaattc	acgttgccac	ctccaactta	aacattcttc	atatgtgatg	tccttagtca	240
ctaaggttaa	actttcccac	ccagaaaagg	caacttagat	aaaatcttag	agtactttca	300
tactmttcta	agtcctcttc	cagcctcact	kkgagtcctm	cytggggggt	gataggaant	360
ntctcttggc	tttctcaata	aartctctat	ycatctcatg	tttaatttgg	tacgcatara	420
awtgstgara	aaattaataa	gttctgggty	maactttaaa	araaaaaaaa	aaaaaaaaaa	479

<210> 183

<211> 384

<212> DNA

<213> Homo sapien

<400> 183

aggcgggagc	agaagctaaa	gccaaagccc	aagaagagtg	gcagtgccag	cactgggtgcc	60
agtaccagta	ccaataacag	tgccagtgcc	agtgccagca	ccagtgggtg	cttcagtgtc	120
ggtgccagcc	tgaccgccac	tctcacattt	gggtctctcg	ctggccttgg	tggagctggg	180
gccagcacca	gtggcagctc	tggtgcctgt	ggtttctcct	acaagtgaga	ttttagatat	240
tgtaaatcct	gccagtcttt	ctcttcaagc	caggggtgcat	cctcagaaac	ctactcaaca	300
cagcactcta	ggcagccact	atcaatcaat	tgaagttgac	actctgcatt	aratctattt	360
gccatttcaa	aaaaaaaaaa	aaaa				384

<210> 184

<211> 496

<212> DNA

<213> Homo sapien

tttttttttt	ttttttttga	ccccctctt	ataaaaaaca	agttaccatt	ttattttact	60
tacacatatt	tattttataa	ttggtattag	atattcaaaa	ggcagctttt	aaaatcaaac	120
taaatggaaa	ctgccttaga	tacataattc	ttaggaatta	gcttaaaaatc	tgctaaagt	180
gaaaatcttc	tctagctctt	ttgactgtaa	atttttgact	cttgtaaaac	atccaaattc	240
atttttcttg	tctttaaaat	tatctaattc	ttccattttt	tccctattcc	aagtcaattt	300
gcttctctag	cctcatttcc	tagctcttat	ctactattag	taagtggcctt	ttttcctaaa	360
agggaaaaaca	ggaagagana	atggcacaca	aaacaaacat	tttatattca	tatttctacc	420
tacgttaata	aaatagcatt	ttgtgaagcc	agctcaaaaag	aaggcttaga	tccttttatg	480
tccatttttag	tcactaaacg	atatcnaaag	tgccagaatg	caaaaagggtt	gtgaacattt	540

<400> 206

```
<220>  
<221> misc_feature  
<222> (1)...(332)  
<223> n = A,T,C or G
```

<400> 207

```
<220>  
<221> misc_feature  
<222> (1) ... (524)  
<223> n = A,T,C or G
```

<400> 208

```

agggcggtggt  gcggaggggcg  ttactgtttt  gtctcagtaa  caataaatac  aaaaagactg      60
gttgtgttcc  ggcccatcc  aaccacgaag  ttgatttctc  ttgtgtgcag  agtgactgat     120
tttaaaggac  atggagcttg  tcacaatgtc  acaatgtcac  agtgtgaagg  gcacactcac     180
tccgcggtga  ttcacattta  gcaaccaaca  atagctcatg  agtccatact  tgtaaatact     240
tttggcagaa  tacttnttga  aacttgcaga  tgataactaa  gatccaagat  atttcccaaa     300
qtaaatagaa  qtgggtcata  atattaatta  cctgttcaca  tcagcttcca  tttacaagtc     360

```


<223> n = A, T, C or G

acccaaaaat	ccaatgctga	atatttggct	tcattattcc	canattcttt	gattgtcaaa	60
ggattttaatg	ttgtctcagc	ttgggcactt	cagttaggac	ctaaggatgc	cagccggcag	120
gtttatatat	gcagcaacaa	tattcaagcg	cgacaacagg	ttattgaact	tgcccgccag	180
ttnaattttca	ttccattga	cttgggatcc	ttatcatcag	ccagagagat	tgaaaattta	240
cccctacnac	tctttactct	ctgganaggg	ccagtgggtg	tagctataag	cttggccaca	300
tttttttttc	ctttattcct	ttgtcaga				328

<213> Homo sapien

<223> n = A, T, C or G

acttatgagc	agagcgacat	atccnagtgt	agactgaata	aaactgaatt	ctctccagtt	60
taaagcattg	ctcactgaag	ggatagaagt	gactgccagg	agggaaagta	agccaaggct	120
cattatgcc	aagganatat	acatttcaat	tctccaaact	tcttctcat	tccaagagtt	180
ttcaatattt	gcatgaacct	gctgataanc	catgttaana	aacaaatata	tctctnacct	240
tctcatcggt						250

<213> Homo sapien

<223> n = A, T, C or G

accagaatc	caatgctgaa	tatttggcct	cattattccc	agattccttg	attgtcaaag	60
gatttaatgt	tgtctcagct	tgggcacttc	agttaggacc	taaggatgcc	agccggcagg	120
tttatatatg	cagcaacaat	attcaagcgc	gacaacaggt	tattgaactt	gcccgccagt	180
tgaatttcat	tccattgac	ttgggatcct	tatcatcagc	canagagatt	gaaaatttac	240
ccctacgact	ctttactctc	tggagagggc	cagtgggtgg	agctataagc	ttggccacat	300
ttttttttcc	tttattcctt	tgtcagagat	gcgattcatc	catatgctan	aaaccaacag	360
agtgactttt	acaaaattcc	tataganatt	gtgaataaaa	ccttacctat	agttgccatt	420
actttgctct	ccctaataata	cctc				444

<210> 222
 <211> 351
 <212> DNA
 <213> Homo sapien

<400> 222
 agggcggtggt gcgaggggcg gtactgacct cattagtagg aggatgcatt ctggcacccc 60
 gttcttcacc tgtcccccac tccctaaaag gccatactgc ataaagtcaa caacagataa 120
 atgtttgctg aattaaagga tggatgaaaa aaattaataa tgaatttttg cataatccaa 180
 tttctctttt tatatttcta gaagaagttt ctttgagcct attagatccc gggaatcttt 240
 taggtgagca tgattagaga gcttgtagggt tgcttttaca tatatctggc atatttgagt 300
 ctogtatcaa aacaatagat tggtaaagggt ggtattattg tattgataag t 351

<210> 223
 <211> 383
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (383)
 <223> n = A,T,C or G

<400> 223
 aaaacaaaca aacaaaaaaaa acaattcttc attcagaaaa attatcttag ggactgatat 60
 tggtaattat ggtcaattta atwrtrttkt ggggcatttc cttacattgt cttgacaaga 120
 ttaaaatgtc tgtgccaaaa ttttgtattt tatttggaga cttcttatca aaagtaatgc 180
 tgccaaagga agtctaagga attagtagtg ttcccmtcac ttgtttggag tgtgctattc 240
 taaaagattt tgatttcctg gaatgacaat tatattttta ctttgggtggg ggaaanagtt 300
 ataggaccac agtcttcact tctgatactt gttaaattaat cttttattgc acttgttttg 360
 accattaagc tatatgttta aaa 383

<210> 224
 <211> 320
 <212> DNA
 <213> Homo sapien

<400> 224
 cccctgaagg cttcttggtta gaaaatagta cagttacaac caataggaac aacaaaaaga 60
 aaaagtttgt gacattgtag tagggagtgt gtacccctta ctcccatca aaaaaaaaaat 120
 ggatacatgg ttaaaggata raagggaat attttatcat atgttctaaa agagaaggaa 180
 gagaaaatac tactttctcr aaatggaagc ccttaaagggt gctttgatac tgaaggacac 240
 aaatgtggcc gtccatcctc ctttaragtt gcatgacttg gacacggtaa ctgttgcaagt 300
 tttaractcm gcattgtgac 320

<210> 225
 <211> 1214
 <212> DNA
 <213> Homo sapien

gaggactgca	gcccgcactc	gcagccctgg	caggcggcac	tgggtcatgga	aaacgaattg	60
ttctgctcgg	gcgtctctgg	gcatccgcga	tgggtgctgt	cagccgcaca	ctgtttccag	120
aactcctaca	ccatcgggct	gggcctgcac	agtcttgagg	ccgaccaaga	gccagggagc	180
cagatggctg	aggccagcct	ctccgtacgg	caccagagt	acaacagacc	cttgctcgt	240
aacgacctca	tgctcatcaa	gttggacgaa	tccgtgtccg	agtctgacac	catccggagc	300
atcagcattg	cttcgcagtg	ccctaccgcg	gggaactctt	gcctcgtttc	tggctggggg	360
ctgctggcga	acggcagaat	gcctaccgtg	ctgcagtgcg	tgaacgtgtc	ggtggtgtct	420
gaggaggtct	gcagtaagct	ctatgaccgg	ctgtaccacc	ccagcatggt	ctgcgccggc	480
ggagggcaag	accagaagga	ctcctgcaac	ggtgactctg	gggggccctt	gatctgcaac	540
gggtactttg	agggccttgt	gtctttcgga	aaagccccgt	gtggccaagt	tggcgtgcca	600
ggtgtctaca	ccaacctctg	caaattcact	gagtggatag	agaaaaccgt	ccaggccagt	660
taactctagg	gactgggaac	ccatgaaatt	gacccccaaa	tacatcctgc	ggaaggaatt	720
caggaatatc	tgttcccagc	ccctcctccc	tcaggcccag	gagtccaggc	ccccagcccc	780
tcctccctca	aaccaagggt	acagatcccc	agccccctct	ccctcagacc	caggagtcca	840
gacccccccag	ccctcctccc	ctcagaccga	ggagtccagc	ccctcctccc	tcagaccagc	900
gagtccagac	ccccagccc	ctcctccctc	agaccagggg	gtccaggccc	ccaacccctc	960
ctccctcaga	ctcagaggtc	caagcccccga	acccctcctt	cccagacc	agaggtccag	1020
gtcccagccc	ctcctccctc	agaccagcgg	gtccaatgcc	acctagactc	tcctgtaca	1080
cagtgcctcc	ttgtggcacg	ttgacccaac	cttaccagtt	ggtttttcat	tttttgtccc	1140
tttcctctag	atccagaaat	aaagtctaag	agaagcgcaa	aaaaaaaaaa	aaaaaaaaaa	1200
aaaaaaaaaa	aaaa					1214

<213> Homo sapien

accagtatgt tgcagggaga cggaacccca tgtgacagcc cactccacca ggggttccaa 60
agaacctggc ccagtcataa tcattcatcc tgacagtggc aataatcacg ataaccagt 119

<213> Homo sapien

acaattcata	gggacgacca	atgaggacag	ggaatgaacc	cggtctctcc	ccagccctga	60
tttttgctac	atatggggtc	ccttttcatt	ctttgcaaaa	acactggggt	ttctgagaac	120
acggacgggt	cttagacaaa	tttgtgaaat	ctgtgtaraa	ccgggctttg	caggggagat	180
aattttcctc	ctctggagga	aagggtggtg	ttgacaggca	gggagacagt	gacaaggcta	240
gagaaagcca	cgctcggcct	tctctgaacc	aggatggaac	ggcagacccc	tgaaaacgaa	300
gcttgctccc	ttccaatcag	ccactttctg	gaacccccat	ctaacttctt	actggaaaag	360
agggcctcct	caggagcagt	ccaagagttt	tcaaagataa	cgtgacaact	accatctaga	420
ggaaagggtg	caccctcagc	agagaagccg	agagcttaac	tctggtcggt	tccagagaca	480
acctgctggc	tgtcttgggg	tgcgccagc	ctttgagagg	ccactacccc	atgaacttct	540
gccatccact	ggacatgaag	ctgaggacac	tgggcttcaa	cactgagttg	tcatgagagg	600
gacaggctct	gccctcaagc	cggtgagggg	cagcaaccac	tctcctcccc	tttctcacgc	660
aaagccattc	ccacaaatcc	agaccatacc	atgaagcaac	gagacccaaa	cagtttggct	720
caagaqgata	tgaggactgt	ctcagcctgg	ctttgggctg	acaccatgca	cacacacaag	780

818

<400> 228

actggagaca	ctgttgaaact	tgatcaagac	ccagaccacc	ccaggtctcc	ttcgtgggat	60
gtcatgacgt	ttgacataacc	tttggaaacga	gcctcctcct	tgggaagatgg	aagaccgtgt	120
tcgtaggcga	cctggcctct	cctggcctgt	ttcttaagat	gcggagtcac	atttcaatgg	180
taggaaaagt	ggcttcgtaa	aatagaagag	cagtcactgt	ggaactacca	aatggcgaga	240
tgctcgggtg	acattggggg	gctttgggat	aaaagattta	tgagccaact	attctctggc	300
accagattct	aggccagttt	gttccactga	agcttttccc	acagcagtcc	acctctgcag	360
gctggcagct	gaatggcttg	cgggtggctc	tgtggcaaga	tcacactgag	atcgatgggt	420
gagaaggcta	ggatgcttgt	ctagtgttct	tagctgtcac	gttggctcct	tccaggttgg	480
ccagacggtg	ttggccactc	ccttctaaaa	cacaggcgcc	ctcctggtga	cagtgacccg	540
ccgtgggtatg	ccttggccca	ttccagcagt	cccagttatg	catttcaagt	ttggggtttg	600
ttcttttcgt	taatgttcct	ctgtgtgttc	agctgtcttc	atttctctgg	ctaagcagca	660
ttgggagatg	tggaccagag	atccactcct	taagaaccag	tggcgaaaga	cactttcttt	720
cttccactctg	aaqtagctgg	tgggt				744

<400> 229

cgagtcctggg	ttttgtctat	aaagtttgat	ccctcctttt	ctcatccaaa	tcatgtgaac	60
cattacacat	cgaaataaaa	gaaagggtgc	agacttgccc	aacgccaggc	tgacatgtgc	120
tgcagggttg	ttgtttttta	attattattg	ttagaaacgt	caccacagtc	ccctgttaat	180
ttgtatgtga	cagccaactc	tgagaaggtc	ctatttttcc	acctgcagag	gatccagtc	240
cactaggctc	ctccttgccc	tcacactgga	gtctccgcca	gtgtgggtgc	ccactgacat	300

<400> 230

cagcagaaca	aatacaaaata	tgaagagtgc	aaagatctca	taaaatctat	gctgaggaat	60
gagcgacagt	tcaaggagga	gaagcttgca	gagcagctca	agcaagctga	ggagctcagg	120
caatataaag	tcttggttca	cactcaggaa	cgagagctga	cccagttaag	ggagaagttg	180
cgggaaaggga	gagatgcctc	cctctcattg	aatgagcatc	tccaggccct	cctcactccg	240
gatgaaccgg	acaagtccca	ggggcaggac	ctccaagaaa	cagacctcgg	ccgcgaccac	300
g						301

```
<210> 231
<211> 301
<212> DNA
<213> Homo sapien
```

<400> 231

gcaagcacgc	tggcaaactct	ctgtcaggtc	agctccagag	aagccattag	tcatttttagc	60
caggaactcc	aagtcacat	ccttggcaac	tggggacttg	cgcagggttag	ccttgaggat	120
ggcaacacgg	gactttctcat	caggaagtgg	gatgtagatg	agctgatcaa	gacggccagg	180
tctgaggatg	gcaggatcaa	tgatgtcagg	cgggttggtg	ccgccaatga	tgaacacatt	240
tttttttgtg	gacatgccat	ccattttctgt	caggatctgg	ttgatgactc	ggtcagcagc	300
c						301

<210> 232

<211> 301

<212> DNA

<213> Homo sapien

<400> 232

agtaggtatt	tcgtgagaag	ttcaacacca	aaactggaac	atagttctcc	ttcaagtgtt	60
ggcgacagcg	gggcttctctg	attctggaat	ataactttgt	gtaaattaac	agccacctat	120
agaagagtc	atctgctgtg	aaggagagac	agagaactct	gggttccgtc	gtcctgtcca	180
cgtgctgtac	caagtgtctgg	tgccagcctg	ttacctgttc	tactgaaaa	tctggctaata	240
gctcttgtgt	atcacttctg	attctgacaa	tcaatcaatc	aatggcctag	agcactgact	300
g						301

<210> 233

<211> 301

<212> DNA

<213> Homo sapien

<400> 233

atgactgact	tcccagtaag	gctctctaa	gggtaagtag	gaggatccac	aggatttgag	60
atgctaaggc	cccagagatc	gtttgatcca	accctcttat	tttcagaggg	gaaaatgggg	120
cctagaagtt	acagagcatc	tagctggtgc	gctggcaccc	ctggcctcac	acagactccc	180
gagtagctgg	gactacaggc	acacagtcac	tgaagcaggc	cctgttagca	attctatgcg	240
tacaaattaa	catgagatga	gtagagactt	tattgagaaa	gcaagagaaa	atcctatcaa	300
c						301

<210> 234

<211> 301

<212> DNA

<213> Homo sapien

<400> 234

aggctctaca	catcgagact	catccatgat	tgatatgaat	ttaaaaatta	caagcaaaga	60
cattttattc	atcatgatgc	tttcttttgt	ttcttctttt	cgttttcttc	tttttctttt	120
tcaatttcag	caacatactt	ctcaatttct	tcaggattta	aaatcttgag	ggattgatct	180
cgcctcatga	cagcaagttc	aatgtttttg	ccacctgact	gaaccacttc	caggagtgc	240
ttgatcacca	gcttaatggg	cagatcatct	gcttcaatgg	cttcgtcagt	atagttcttc	300
t						301

<210> 235

<211> 283

<212> DNA

<400> 235

<210> 236

<211> 301

<212> DNA

<213> Homo sapien

<400> 236

aggtcctcca	ccaactgcct	gaagcacggt	taaaattggg	aagaagtata	gtgcagcata	60
aatactttta	aatcgatcag	atttccttaa	cccacatgca	atcttcttca	ccagaagagg	120
tcggagcagc	atcattaata	ccaagcagaa	tgcgtaatag	ataaatacaa	tggtatatag	180
tgggtagacg	gcttcatgag	tacagtgtac	tgtggtatcg	taatctggac	ttgggttgta	240
aagcatcgtg	taccagtcag	aaagcatcaa	tactcgacat	gaacgaatat	aaagaacacc	300
a						301

<210> 237

<211> 301

<212> DNA

<213> Homo sapien

<400> 237

cagtggtagt	ggtggtggac	gtggcgcttg	tctggttgcc	ttttttggtg	cccgtcacaa	60
actcaatttt	tgttcgctcc	tttttggcct	tttccaattt	gtccatctca	attttctggg	120
ccttggtctaa	tgccctcatag	taggagtcct	cagaccagcc	atggggatca	aacatatcct	180
ttgggtagtt	ggtgccaaagc	tctgcaatgg	cacagaatgg	atcagcttct	cgtaaatacta	240
gggttccgaa	attctttctt	cctttggata	atgtagttca	tatccattcc	ctcctttatc	300
t						301

<210> 238

<211> 301

<212> DNA

<213> Homo sapien

<400> 238

gggcaggttt	tttttttttt	ttttttgatg	gtgcagaccc	ttgctttatt	tgtctgactt	60
gttcacagtt	cagccccctg	ctcagaaaac	caacggggcca	gctaaggaga	ggaggaggca	120
ccttgagact	tccggagtcg	aggctctcca	gggttcccca	gcccatcaat	cattttctgc	180
acccctgcc	tgggaagcag	ctccctgggg	ggtgggaatg	ggtgactaga	agggatttca	240
gtgtgggacc	cagggctctgt	tcttcacagt	aggaggtgga	agggatgact	aattttcttta	300
t						301

<210> 239

<211> 239

<212> DNA

<400> 239

<210> 240

<211> 300

<212> DNA

<213> Homo sapien

$\langle 400 \rangle$ 240

<210> 241

<211> 301

<212> DNA

<213> Homo sapien

<400> 241

<210> 242

<211> 301

<212> DNA

<213> Homo sapien

<400> 242

$\langle 210 \rangle$ 243

<211> 301

<212> DNA

<213> Homo sapien

aggtaaagtc	cagtttgaag	ctcaaaagat	ctgggtatgag	cataggctca	tgcacgacat	60
ggtgggccaa	gctatgaaat	cagagggagg	cttcattctgg	gcctgtaaaa	actatgatgg	120
tgacgtgcag	tcggactctg	tggcccaagg	gtatggctct	ctcggcatga	tgaccagcgt	180
gctggtttgt	ccagatggca	agacagtaga	agcagaggct	gccacggga	ctgtaaccgc	240
tcactaccgc	atgttccaga	aaggacagga	gacgtccacc	aatcccattg	cttccatttt	300
t						301

$\langle 211 \rangle$ 300

<212> DNA

<213> Homo sapien

gctggtttgc	aagaatgaaa	tgaatgattc	tacagctagg	acttaacctt	gaaatggaaa	60
gtcatgcaat	cccatttgca	ggatctgtct	gtgcacatgc	ctctgtagag	agcagcattc	120
ccagggacct	tggaaacagt	tgacactgta	aggtgcttgc	tccccaagac	acatcctaaa	180
aggtgttgta	atggtgaaaa	cgtcttcctt	ctttattgcc	ccttcttatt	tatgtgaaca	240
actgtttgtc	tttttgttat	cttttttaaa	ctgtaaagtt	caattgtgaa	aatgaatatc	300

<211> 301

<212> DNA

<213> Homo sapien

gtctgagtat	ttaaaatgtt	attgaaatta	tccccaacca	atgttagaaa	agaaagaggt	60
tatatactta	gataaaaaat	gagggtgaatt	actatccatt	gaaatcatgc	tcttagaatt	120
aaggccagga	gatattgtca	ttaatgtara	cttcaggaca	ctagagtata	gcagccctat	180
gttttcaaag	agcagagatg	caattaaata	ttgttttagca	tcaaaaaggc	cactcaatac	240
agctaataaa	atgaaagacc	taattttctaa	agcaattctt	tataattttac	aaagttttaa	300
g						301

<211> 301

<212> DNA

<213> Homo sapien

gggtctgtcct	acaatgcctg	cttcttgaaa	gaagtcggca	ctttctagaa	tagctaaata	60
acctgggctt	attttaaaga	actatttgta	gctcagattg	gttttcctat	ggctaaaata	120
agtgtctctt	gtgaaaaatta	aataaaacag	ttaattcaaa	gccttgatat	atgttaccac	180
taacaatcat	actaaatata	ttttgaagta	caaagtttga	catgctctaa	agtgacaacc	240
caaatgtgtc	ttacaaaaca	cgttcctaac	aaggatatgct	ttacactacc	aatgcagaaa	300
c						301

 $\langle 211 \rangle$, 301

<212> DNA

<213> Homo sapien

<400> 247

```

aggtcctttg gcagggctca tggatcagag ctcaaactgg agggaaaggc atttcgggta      60
gcctaagagg gcgactggcg gcagcacaac caaggaaggc aaggttgttt ccccccagct      120
gtgtcctgtg ttcaggtgcg acacacaatc ctcatgggaa caggatcacc catgcgctgc      180
ccttgatgat caaggttggg gcttaagtgg attaaggag gcaagttctg ggttccttgc      240
cttttcaaac catgaagtca ggctctgtat ccctcctttt cctaactgat attctaacta      300
a                                                                                   301

```

<210> 248

<211> 301

<212> DNA

<213> Homo sapien

<400> 248

```

aggtccttgg agatgccatt tcagccgaag gactcttctw ttcggaagta caccctcact      60
attaggaaga ttcttagggg taatttttct gaggaaggag aactagccaa cttagaatt      120
acaggaagaa agtggtttgg aagacagcca aagaaataaa agcagattaa attgtatcag      180
gtacattcca gcctgttggc aactccataa aaacatttca gattttaatc ccgaatttag      240
ctaattgagac tggatttttg ttttttatgt tgtgtgtcgc agagctaaaa actcagttcc      300
c                                                                                   301

```

<210> 249

<211> 301

<212> DNA

<213> Homo sapien

<400> 249

```

gtccagagga agcacctggg gctgaactag gcttgccctg ctgtgaactt gcacttggag      60
ccctgacgct gctgttctcc ccgaaaaacc cgaccgacct ccgcgatctc cgccccgcc      120
ccaggagagac acagcagtga ctcagagctg gtcgcacact gtgcctccct cctcaccgcc      180
catcgtaatg aattattttg aaaattaatt ccaccatcct ttcagattct ggatggaaag      240
actgaatctt tgactcagaa ttgtttgctg aaaagaatga tgtgactttc ttagtcattt      300
a                                                                                   301

```

<210> 250

<211> 301

<212> DNA

<213> Homo sapien

<400> 250

```

ggctctgtgac aaggacttgc aggctgtggg aggcaagtga cccttaacac tacacttctc      60
cttatcttta ttggcttgat aaacataatt atttctaaca ctagcttatt tccagttgcc      120
cataagcaca tcagtacttt tctctggctg gaatagtaaa ctaaagtatg gtacatctac      180
ctaaaagact actatgtgga ataatacata ctaatgaagt attacatgat ttaaagacta      240
caataaaacc aaacatgctt ataacattaa gaaaaacaat aaagatacat gattgaaacc      300
a                                                                                   301

```

<210> 251

<211> 301

<212> DNA

<213> Homo sapien

<400> 251

```

gccgaggtcc tacatttggc ccagtttccc cctgcctcct ctccagggcc cctgcctcat    60
agacaacctc atagagcata ggagaactgg ttgccctggg ggcaggggga ctgtctggat    120
ggcagggggtc ctcaaaaatg ccaactgtcac tgccaggaaa tgcttctgag cagtacacct    180
cattggggatc aatgaaaagc ttcaagaaat cttcagggtc actctcttga aggcccgga    240
cctctggagg ggggcagtgg aatcccagct ccaggacgga tcctgtcgaa aagatatacct    300
c                                                                    301

```

<210> 252

<211> 301

<212> DNA

<213> Homo sapien

<400> 252

```

gcaaccaatc actctgtttc acgtgacttt tatcaccata caatttgtgg catttctca    60
ttttctacat tgtagaatca agagtgtaaa taaatgtata tcgatgtctt caagaatata    120
tcattccttt ttcactagga acccattcaa aatataagtc aagaatctta atatcaacaa    180
atatatcaag caaactggaa ggcagaataa ctaccataat ttagtataag taccocaaagt    240
tttataaatc aaaagcccta atgataacca tttttagaat tcaatcatca ctgtagaatc    300
a                                                                    301

```

<210> 253

<211> 301

<212> DNA

<213> Homo sapien

<400> 253

```

ttccctaaga agatgttatt ttgttggggt ttgttcccc tccatctoga ttctcgtacc    60
caactaaaaa aaaaaaataa agaaaaaatg tgctgcgttc tgaaaaataa ctcttagct    120
tggtctgatt gttttcagac cttaaaatat aaacttgttt cacaagcttt aatccatgtg    180
gatttttttt cttagagaa cacaaaacat aaaaggagca agtcggactg aatacctgtt    240
tccatagtgc ccacagggtg ttctcaccat tttctccata ggaaaatgct ttttcccaag    300
g                                                                    301

```

<210> 254

<211> 301

<212> DNA

<213> Homo sapien

<400> 254

```

cgctgcgcct ttcccttggg ggaggggcaa ggccagagg ggtccaagtg cagcacgagg    60
aacttgacca attcccttga agcgggtggg ttaaaccctg taaatgggaa caaaatcccc    120
ccaaatctct tcatcttacc ctggtggact cctgactgta gaattttttg gttgaaacaa    180
gaaaaaaata aagcttttga cttttcaagg ttgcttaaca ggtactgaaa gactggcctc    240
acttaactg agccaggaaa agctgcagat ttattaatgg gtgtgttagt gtgcagtgcc    300
t                                                                    301

```

<210> 255

<211> 302

<212> DNA

<213> Homo sapien

<400> 255

```

agctttttttt tttttttttt tttttttttt ttcattaaaa aatagtgtct tttattataa      60
attactgaaa tgtttctttt ctgaatataa atataaatat gtgcaaagtt tgacttggat      120
tggtgattttg ttgagttctt caagcatctc ctaataccct caagggcctg agtagggggg      180
aggaaaaagg actggaggtg gaatctttat aaaaaacaag agtgattgag gcagattgta      240
aacattatta aaaaacaaga aacaaacaaa aaaatagaga aaaaaaccac cccaacacac      300
aa                                                                    302

```

<210> 256

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (301)

<223> n = A,T,C or G

<400> 256

```

gttccagaaa acattgaagg tggttcccca aagtetaact agggataccc cctotagcct      60
aggaccctcc tccccacacc tcaatocacc aaaccatcca taatgcaccc agataggccc      120
acccccaaaa gcctggacac cttgagcaca cagttatgac caggacagac tcctctctat      180
aggcaaatag ctgctggcaa actggcatta cctggtttgt ggggatgggg gggcaagtgt      240
gtggcctctc ggctgggta gcaagaacat tcagggtagg cctaagttan tcgtgttagt      300
t                                                                    301

```

<210> 257

<211> 301

<212> DNA

<213> Homo sapien

<400> 257

```

gttgtggagg aactctggct tgctcattaa gtctactga ttttcaactat cccctgaatt      60
tccccactta tttttgtctt tcaactatgc aggccttaga agaggtctac ctgcctccag      120
tcttacctag tccagtctac cccctggagt tagaatggcc atcctgaagt gaaaagtaat      180
gtcacattac tcccttcagt gattttctgt agaagtgcc atccctgaat gccaccaaga      240
tcttaattct cacatcttta atcttatctc tttgactcct ctttacaccg gagaaggctc      300
c                                                                    301

```

<210> 258

<211> 301

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (301)

<223> n = A,T,C or G

cagcagtagt	agatgccgta	tgccagcacg	cccagcactc	ccaggatcag	caccagcacc	60
aggggccag	ccaccaggcg	cagaagcaag	ataaacagta	ggctcaagac	cagagccacc	120
cccagggcaa	caagaatcca	ataccaggac	tgggcaaaat	cttcaaagat	cttaacactg	180
atgtctcggg	cattgaggct	gtcaataana	cgctgatccc	ctgctgtatg	gtggtgtcat	240
tggtgatccc	tgggagcgcc	ggtggagtaa	cgtttggtcca	tggaaagcag	cgcccacaac	300
t						301

<213> Homo sapien

<223> n = A, T, C or G

tcatatatgc	aaacaaatgc	agactangcc	tcaggcagag	actaaaggac	atctcttggg	60
gtgtcctgaa	gtgatttggg	ccctgaggg	cagacaccta	agtaggaatc	ccagtgggaa	120
gcaaagccat	aaggaagccc	aggattcctt	gtgatcagga	agtgggccag	gaaggtctgt	180
tccagtcac	atctcatctg	catgcagcac	ggaccggatg	cgcccactgg	gtcttggctt	240
ccctcccatc	ttctcaagca	gtgtccttgt	tgagccattt	gcatecttgg	ctccaggtgg	300
c						301

<213> Homo sapien

ttttttttct	ccctaaggaa	aaagaaggaa	caagtctcat	aaaaccaaat	aagcaatggt	60
aagggtgtctt	aacttgaaaa	agattaggag	tcactggttt	acaagttata	attgaatgaa	120
agaactgtaa	cagccacagt	tggccatttc	atgccaatgg	cagcaacaa	caggattaac	180
tagggcaaaa	taaataagtg	tgtggaagcc	ctgataagtg	cttaataaac	agactgattc	240
actgagacat	cagtacctgc	ccgggcggcc	gctcgagccg	aattctgcag	atatccatca	300
c						301

<213> Homo sapien

aaatattcga	gcaaatcctg	taactaatgt	gtctccataa	aaggctttga	actcagtga	60
tctgcttcca	tccacgattc	tagcaatgac	ctctcggaca	tcaaagctcc	tcttaagggt	120
agcaccaact	attccataca	attcatcagc	aggaaataaa	ggctcttcag	aagggttcaat	180
ggtgacatcc	aattttcttct	gataattttag	attcctcaca	accttcctag	ttaagtgaag	240
ggcatgatga	tcatccaaag	cccagtggtc	acttactcca	gactttctgc	aatgaagatc	300
a						301

c

301

<210> 279
 <211> 301
 <212> DNA
 <213> Homo sapien

 <220>
 <221> misc_feature
 <222> (1)...(301)
 <223> n = A,T,C or G

<400> 279
 aaagcaggaa tgacaaagct tgcttttctg gtatgttcta ggtgtattgt gacttttact 60
 gttatattaa ttgccaatat aagtaaatat agattatata tgtatagtgt ttcacaaagc 120
 ttagaccttt accttcacag caccacacag tgcttgatat ttcagagtca gtcattgggt 180
 atacatgtgt agttccaaag cacataagct agaanaanaa atatttctag ggagcactac 240
 catctgtttt cacatgaaat gccacacaca tagaactcca acatcaattt cattgcacag 300
 a 301

<210> 280
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 280
 ggtactggag ttttcctccc ctgtgaaaac gtaactactg ttgggagtga attgaggatg 60
 tagaaagggt gtggaaccaa attgtggtca atggaaatag gagaatatgg ttctcactct 120
 tgagaaaaaa acctaaagatt agcccaggta gttgcctgta acttcagttt ttctgcctgg 180
 gtttgatata gtttaggggt ggggttagat taagatctaa attacatcag gacaaagaga 240
 cagactatta actccacagt taattaagga ggtatgttcc atgtttattt gttaaagcag 300
 t 301

<210> 281
 <211> 301
 <212> DNA
 <213> Homo sapien

<400> 281
 aggtacaaga aggggaatgg gaaagagctg ctgctgtggc attgttcaac ttggatattc 60
 gccgagcaat ccaaactctg aatgaagggg catctttctga aaaaggagat ctgaatctca 120
 atgtggtagc aatggcttta tcgggttata cggatgagaa gaactccctt tggagagaaa 180
 tgtgtagcac actgcgatta cagctaaata acccgtatgt gtgtgtcatg tttgcatttc 240
 tgacaagtga aacaggatct tacgatggag ttttgtatga aaacaaagtt gcagtacctc 300
 g 301

<210> 282
 <211> 301
 <212> DNA
 <213> Homo sapien

cagg tactac	agaattaaaa	tactgacaag	caagtagttt	cttggcgtgc	acgaattgca	60
tccagaaccc	aaaaattaag	aaattcaaaa	agacattttg	tgggcacctg	ctagcacaga	120
agcgcagaag	caaagcccag	gcagaaccat	gctaacctta	cagctcagcc	tgcacagaag	180
cgcagaagca	aagcccaggc	agaaccatgc	taaccttaca	gctcagcctg	cacagaagcg	240
cagaagcaaa	gcccaggcag	aacatgctaa	ccttacagct	cagcctgcac	agaagcacag	300
a						301

<213> Homo sapien

atctgtatac	ggcagacaaa	ctttatarag	tgtagagagg	tgagcgaaag	gatgcaaaag	60
cactttgagg	gctttataat	aatatgctgc	ttgaaaaaaaa	aaatgtgtag	ttgatactca	120
gtgcatctcc	agacatagta	aggggttgct	ctgaccaatc	aggtgatcat	tttttctatc	180
acttcccagg	ttttatgcaa	aaattttggt	aaattctata	atggtgatat	gcattcttta	240
ggaaacatat	acatttttaa	aaatctatgt	tatgtaagaa	ctgacagacg	aatttgcttt	300
g						301

<213> Homo sapien

caggtagaaa	acgctattaa	gtggcttaga	atttgaacat	tttgtggtctt	tattttacttt	60
gcttcgtgtg	tgggcaaagc	aacatcttcc	ctaaatatat	attaccaaga	aaagcaagaa	120
gcagattagg	tttttgacaa	aacaaaacagg	ccaaaagggg	gctgacctgg	agcagagcat	180
ggtgagaggg	aaggcatgag	agggcaagtt	tgttgtggac	agatctgtgc	ctactttatt	240
actggagtaa	aagaaaacaa	agttcattga	tgtcgaagga	tatatacagt	gttagaaatt	300
a						301

<213> Homo sapien

<223> n = A, T, C or G

acatcaccat	gatcggatcc	cccacccatt	atacgttgta	tgtttacata	aatactcttc	60
aatgatcatt	agtgttttaa	aaaaaatact	gaaaactcct	tctgcatccc	aatctctaac	120
caggaaagca	aatgctattt	acagacctgc	aagccctccc	tcaaacnaaa	ctatttctgg	180
attaaatatg	tctgacttct	tttgagggtca	cacgactagg	caaagtctat	ttacgatctg	240
caaagctgt	ttgaagagtc	aaagccccc	tgtgaacacg	atttctggac	cctgtaacag	300
t						301

<212> DNA
<213> Homo sapien

<400> 296
aggtactatg ggaagctgct aaaataatat ttgatagtaa aagtatgtaa tgtgctatct 60
cacctagtag taaactaaaa ataaactgaa actttatgga atctgaagtt attttccttg 120
attaaataga attaataaac caatatgagg aaacatgaaa ccatgcaatc tactatcaac 180
tttgaaaaag tgattgaacg aaccacttag ctttcagatg atgaacactg ataagtcatt 240
tgtcattact ataaatttta aaatctgtta ataagatggc ctatagggag gaaaaagggg 300
c 301

<210> 297
<211> 300
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (300)
<223> n = A,T,C or G

<400> 297
actgagtttt aactggacgc caagcaggca aggctggaag gttttgctct ctttgtgcta 60
aagggttttga aaaccttgaa ggagaatcat ttgacaaga agtacttaag agtctagaga 120
acaaagangt gaaccagctg aaagctctcg ggggaanctt acatgtgttg ttaggcctgt 180
tccatcattg ggagtgcact ggccatccct caaaatttgt ctgggctggc ctgagtgggc 240
accgcacctc ggccgcgacc acgctaagcc gaattctgca gatatccatc acactggcgg 300

<210> 298
<211> 301
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (301)
<223> n = A,T,C or G

<400> 298
tatggggttt gtcacccaaa agctgatgct gagaaaggcc tccctggggc cctcccgcg 60
ggcatctgag agacctggtg ttccagtgtt tctggaaatg ggtcccagtg ccgccggctg 120
tgaagctctc agatcaatca cgggaagggc ctggcggttg tggccacctg gaaccacct 180
gtcctgtctg ttacatttc actaycaggt tttctctggg cattaonatt tgttccccta 240
caacagtgc ctgtgcattc tgctgtggcc tgctgtgtct gcagggtggc ctcagcgagg 300
t 301

<210> 299
<211> 301
<212> DNA
<213> Homo sapien

<400> 299

```

gttttgagac ggagtttcac tcttggtgac cagactggac tgcaatggca ggggtctctgc      60
tcaactgcacc ctctgcctcc caggttcgag caattctcct gcctcagcct cccaggtagc      120
tggtgattgca ggctcacgcc accataccca gctaattttt ttgtattttt agtagagacg      180
gagtttcgcc atgttggtcca gctggtctca aactcctgac ctcaagcgac ctgcctgcct      240
cggcctccca aagtgtctgga attataggca tgagtcaaca cgcccagcct aaagatattt      300
t                                                                                   301

```

<210> 300

<211> 301

<212> DNA

<213> Homo sapien

<400> 300

```

attcagtttt atttgcctgcc ccagtatctg taaccaggag tgccacaaaa tcttgccaga      60
tatgtccac accactggg aaaggtctcc acctggctac ttctctatc agctgggtca      120
gctgcattcc acaagggtct cagcctaata agtttacta cctgccagtc tcaaaactta      180
gtaaagcaag accatgacat tccccacgg aaatcagagt ttgccccacc gtcttggtac      240
tataaagcct gcctctaaca gtccttgctt ctccacacca atcccagagc catcccccat      300
g                                                                                   301

```

<210> 301

<211> 301

<212> DNA

<213> Homo sapien

<400> 301

```

ttaaattttt gagaggataa aaaggacaaa taatctagaa atgtgtcttc ttcagtctgc      60
agaggacccc aggtctccaa gcaaccacat ggtcaagggc atgaataatt aaaagttggt      120
gggaactcac aaagaccctc agagctgaga caccacaac agtgggagct cacaagacc      180
ctcagagctg agacaccac aacagtggga gctcacaag accctcagag ctgagacacc      240
cacaacagca cctcgttcag ctgccacatg tgtgaataag gatgcaatgt ccagaagtgt      300
t                                                                                   301

```

<210> 302

<211> 301

<212> DNA

<213> Homo sapien

<400> 302

```

aggtagacat ttagcttggt gtaaatagact cacaaaactg attttaaaat caagttaatg      60
tgaattttga aaattactac ttaatcctaa ttcacaataa caatggcatt aaggtttgac      120
ttgagttggt tcttagtatt atttatggta aataggctct taccatttgc aaataactgg      180
ccacatcatt aatgactgac ttcccagtaa ggctctctaa ggggtaagta ggaggatcca      240
caggatttga gatgctaagg ccccagagat cgtttgatcc aaccctctta ttttcagagg      300
g                                                                                   301

```

<210> 303

<211> 301

<212> DNA

<213> Homo sapien

ggaggactgc	agccccgact	cgcagccctg	gcaggcggca	ctggtcatgg	aaaacgaatt	60
gttctgctcg	ggcgtcctgg	tgcattccgc	gtgggtgctg	tcagccgcac	actgtttcca	120
gaactcctac	accatcgggc	tgggcctgca	cagtcttgag	gccgaccaag	agccaggggag	180
ccagatggtg	gaggccagcc	tctccgtacg	gcaccagag	tacaacagac	ccttgctcgc	240
taacgacctc	atgctcatca	agttggacga	atccgtgtcc	gagtctgaca	ccatccggag	300
catcagcatt	gcttcgcagt	gccctaccgc	ggggaactct	tgctcgtttt	ctggctgggg	360
tctgctggcg	aacggcagaa	tgctaccgt	gctgcagtgc	gtgaacgtgt	cggtggtgtc	420
tgaggaggtc	tgcagtaagc	tctatgaccc	gctgtaccac	cccagcatgt	tctgcgcggg	480
cggaggggcaa	gaccagaagg	actcctgcaa	cggtgactct	ggggggcccc	tgatctgcaa	540
cgggtacttg	cagggccttg	tgtctttcgg	aaaagccccg	tgtggccaag	ttggcgtgcc	600
aggtgtctac	accaacctct	gcaaattcac	tgagtggata	gagaaaaaccg	tccaggccag	660
ttaactctgg	ggactgggaa	cccatgaaat	tgacccccaa	atacatcctg	cggaaaggaat	720
tcagggaatat	ctgttcccag	cccctcctcc	ctcaggccca	ggagtccagg	ccccagccc	780
ctcctccctc	aaaccaaggq	tacagatccc	cagcccctcc	tccctcagac	ccaggagtc	840

aggtgttggt	gcggaactg	gacctgtctg	atactaagtc	tattcgagct	tttgctaagg	360
gcttcttagc	tgaggaaaag	cacctccacg	ttttgatcaa	caatgcagga	gtgatgatgt	420
gtccgtactc	gaagacagca	gatggctttg	agatgcacat	aggagtcaac	cacttgggtc	480
acttcctcct	aaccatctg	ctgctagaga	aactaaagga	atcagcccca	tcaaggatag	540
taaatgtgtc	ttccctcgca	catcacctgg	gaaggatcca	cttcataaac	ctgcagggcg	600
agaaattcta	caatgcaggc	ctggcctact	gtcacagcaa	gctagccaac	atcctcttca	660
cccaggaact	ggcccgga	ctaaaaggct	ctggcgttac	gacgtattct	gtacaccctg	720
gcacagtcca	atctgaactg	gttcggcact	catctttcat	gagatggatg	tgggtggcttt	780
tctccttttt	catcaagact	cctcagcagg	gagcccagac	cagcctgcac	tgtgccttaa	840
cagaaggtct	tgagattcta	agtgggaatc	atttcagtga	ctgtcatgtg	gcatgggtct	900
ctgcccgaagc	tcgtaatgag	actatagcaa	ggcggtgtg	ggacgtcagt	tgtgacctgc	960
tgggcctccc	aatagactaa	caggcagtgc	cagttggacc	caagagaaga	ctgcagcaga	1020
ctacacagta	cttcttgtca	aaatgattct	ccttcaaggt	tttcaaaacc	tttagcacia	1080
agagagcaaa	accttccagc	cttgccctgct	tgggtgtccag	ttaaaactca	gtgtactgcc	1140
agattcgtct	aaatgtctgt	catgtccaga	tttactttgc	ttctgttact	gccagagtta	1200
ctagagatat	cataatagga	taagaagacc	ctcatatgac	ctgcacagct	cattttcctt	1260
ctgaaagaaa	ctactaccta	ggagaatcta	agctatagca	gggatgattt	atgcaaattt	1320
gaactagctt	ctttgttcac	aattcagttc	ctcccaacca	accagtcttc	acttcaagag	1380
ggccacactg	caacctcagc	ttaacatgaa	taacaaagac	tggctcagga	gcagggcttg	1440
cccaggcatg	gtggatcacc	ggaggtcagt	agttcaagac	cagcctggcc	aacatgggtg	1500
aacccacct	ctactaaaaa	ttgtgtatat	ctttgtgtgt	cttcctgttt	atgtgtgcc	1560
agggagtatt	ttcaciaaagt	tcaaaacagc	cacaataatc	agagatggag	caaaccagtg	1620
ccatccagtc	tttatgcaaa	tgaaatgctg	caaaggggaag	cagattctgt	atatgttggt	1680
aactaccac	caagagcaca	tgggtagcag	ggaagaagta	aaaaaagaga	aggagaatac	1740
tggaagataa	tgcacaaaat	gaagggacta	gttaaggatt	aactagccct	ttaaggatta	1800
actagttaag	gattaatagc	aaaagayatt	aaatatgcta	acatagctat	ggaggaattg	1860
agggcaagca	cccaggactg	atgaggctct	aacaaaaacc	agtgtggcaa	aaaaaaaaaa	1920
aaaaaaaaaa	aaaaatccta	aaaacaaaca	aacaaaaaaa	acaattcttc	attcagaaaa	1980
attatcttag	ggactgatat	tggtaattat	ggtcaattta	ataatatttt	ggggcatttc	2040
cttacattgt	cttgacaaga	ttaaaatgtc	tgtgccaaaa	ttttgtattt	tatttgga	2100
cttcttatca	aaagtaatgc	tgccaaagga	agtctaagga	attagtagtg	ttcccatcac	2160
ttgtttggag	tgtgctattc	taaaagattt	tgatttctctg	gaatgacaat	tatattttaa	2220
ctttgggtggg	ggaaagagtt	ataggaccac	agtcttcaact	tctgatactt	gtaaattaat	2280
cttttattgc	acttgttttg	accattaagc	tatatgttta	gaaatggtea	ttttacggaa	2340
aaattagaaa	aattctgata	atagtgcaga	ataaatgaat	taatgtttta	cttaatttat	2400
attgaactgt	caatgacaaa	taaaaattct	ttttgattat	tttttgtttt	catttaccag	2460
aataaaaaacg	taagaattaa	aagtttgatt	acaaaaaaa	aaaaaaa		2507

<210> 333

<211> 3030

<212> DNA

<213> Homo sapien

<400> 333

gcaggcgact	tgcgagctgg	gagcgattta	aaacgctttg	gattcccccg	gcctgggtgg	60
ggagagcgag	ctgggtgccc	cctagattcc	cgcggccgcg	acctcatgag	ccgacctcgc	120
gctccatgga	gcccggcaat	tatgccacct	tggatggagc	caaggatata	gaaggcttgc	180
tgggagcggg	agggggggcg	aatctggteg	cccactcccc	tctgaccagc	caccagcggg	240
cgcctacgct	gatgcctgct	gtcaactatg	cccccttgga	tctgccaggc	tcggcgagc	300
cgccaaagca	atgccacca	tgccctgggg	tgccccaggg	gacgtcccca	gctcccgtgc	360
cttatggtta	ctttggaggc	gggtactact	cctgccaggt	gtcccgagc	tcgtgaaac	420

cctgtgcccc	ggcagccacc	ctggccgcgt	accccgcgga	gactcccacg	gccggggaag	480
agtacccag	ycgccccact	gagtttgect	tctatccggg	atatccggga	acctaccagc	540
ctatggccag	ttacctggac	gtgtctgtgg	tgcagactct	gggtgctcct	ggagaaccgc	600
gacatgactc	cctgttgect	gtggacagtt	accagtcttg	ggctctcgct	ggtggctgga	660
acagccagat	gtgttgccag	ggagaacaga	acccaccagg	tcccttttgg	aaggcagcat	720
ttgcagactc	cagcgggcag	caccctcctg	acgcctgcgc	ctttcgctcg	ggccgcaaga	780
aacgcattcc	gtacagcaag	gggcagttgc	gggagctgga	gcgggagtat	gcgggctaaca	840
agttcatcac	caaggacaag	agggcgaaga	tctcggcagc	caccagcctc	tccgagcgcc	900
agattacat	ctggttttcag	aaccgcggg	tcaaagagaa	gaaggttctc	gccaaggtga	960
agaacagcgc	tacccttaa	gagatctcct	tgcttgggtg	ggaggagcga	aagtgggggt	1020
gtcctgggga	gaccaggaac	ctgccaaacc	caggctgggg	ccaaggactc	tgctgagagg	1080
cccctagaga	caacaccctt	cccaggccac	tggtctgtgg	actgttctct	aggagcggcc	1140
tgggtaccca	gtatgtgcag	ggagacggaa	ccccatgtga	cagcccaactc	caccagggtt	1200
cccaaagaac	ctggcccagt	cataatcatt	catectgaca	gtggcaataa	tcacgataac	1260
cagtactagc	tgccatgac	gttagcctca	tattttctat	ctagagctct	gtagagcact	1320
ttagaaaccg	ctttcatgaa	ttgagctaata	tatgaataaa	tttggaaaggc	gatccctttg	1380
cagggaaagct	ttctctcaga	cccccttcca	ttacacctct	caccctggta	acagcaggaa	1440
gactgaggag	aggggaacgg	gcagattcgt	tgtgtggctg	tgatgtccgt	ttagcatttt	1500
tctcagctga	cagctgggta	ggtggacaat	tgtagaggct	gtctcttctc	ccctccttgt	1560
ccaccccata	gggtgtaccc	actggtcttg	gaagcaccca	tccttaatac	gatgattttt	1620
ctgtcgtgtg	aaaatgaagc	cagcaggctg	cccctagtca	gtccttctct	ccagagaaaa	1680
agagatttga	gaaagtgcct	gggtaattca	ccattaattt	ctcccccaa	actctctgag	1740
tcttccctta	atatttctgg	tggttctgac	caaagcaggt	catggtttgt	tgagcatttg	1800
ggatcccagt	gaagtagatg	tttgtagcct	tgcatactta	gcccttccca	ggcaciaaacg	1860
gagtggcaga	gtggtgccaa	ccctgttttc	ccagtccacg	tagacagatt	cacagtgcgg	1920
aattctggaa	gctggagaca	gacgggctct	ttgcagagcc	gggactctga	gagggacatg	1980
agggcctctg	cctctgtgtt	cattctctga	tgtcctgtac	ctgggctcag	tgcccgggtg	2040
gactcatctc	ctggccgcgc	agcaaaagcca	gcgggttcgt	gctggctcct	cctgcacctt	2100
aggctggggg	tggggggcct	gccggcgcat	tctccacgat	tgagcgcaca	ggcctgaagt	2160
ctggacaacc	cgcagaaccg	aagctccgag	cagcgggtcg	gtggcgagta	gtggggctcg	2220
tggcgagcag	ttggtgggtg	gccgcggccg	ccactacctc	gaggacattt	ccctcccggg	2280
gccagctctc	ctagaaaccc	cgcggcgggc	gccgcagcca	agtgtttatg	gcccgcggtc	2340
gggtgggac	ctagccctgt	ctcctctcct	gggaaggagt	gagggtggga	cgtgacttag	2400
acacctacaa	atctattttac	caaagaggag	cccgggactg	agggaaaagg	ccaaagagtg	2460
tgagtgcacg	cggactgggg	gttcagggga	agaggacgag	gaggaggaag	atgaggctga	2520
tttctgatt	taaaaaatcg	tccaagcccc	gtggtccagc	ttaaggctct	cggttacatg	2580
cgcgcctcag	agcaggtcac	tttctgcctt	ccacgtcctc	cttcaaggaa	gccccatgtg	2640
ggtagctttc	aatatcgacg	gttcttactc	ctctgcctct	ataagctcaa	acccaccaac	2700
gatcgggcaa	gtaaaccccc	tccctcgccg	acttcggaac	tggcgagagt	tcagcgcaga	2760
tgggcctgtg	gggagggggc	aagatagatg	agggggagcg	gcatggtgcg	gggtgacccc	2820
ttggagagag	gaaaaaggcc	acaagagggg	ctgccaccgc	cactaacgga	gatggccctg	2880
gtagagacct	ttgggggtct	ggaacctctg	gactcccat	gctctaactc	ccacactctg	2940
ctatcagaaa	cttaaacctg	aggattttct	ctgtttttca	ctcgcaataa	aytcagagca	3000
aacaaaaaaa	aaaaaaaaaa	aaaactcgag				3030

<210> 334

<211> 2417

<212> DNA

<213> Homo sapien

<400> 334

ggcgccgct ctagagctag tgggatcccc cgggctgcac gaattcggca cgagtgaagt 60
 ggagttttac ctgtattgtt ttaatttcaa caagcctgag gactagccac aaatgtaccc 120
 agtttacaaa tgaggaaaca ggtgcaaaaa ggttggtacc tgtcaaaggc cgtatgtggc 180
 agagccaaga tttgagccca gttatgtctg atgaacttag cctatgctct ttaaacttct 240
 gaatgctgac cattgaggat atctaaactt agatcaattg cattttccct ccaagactat 300
 ttacttatca atacaataat accaccttta ccaatctatt gttttgatac gagactcaaa 360
 tatgccagat atatgtaaaa gcaacctaca agctctctaa tcatgctcac ctaaaagatt 420
 cccgggatct aataggctca aagaaacttc ttctagaaat ataaaagaga aaattggatt 480
 atgcaaaaat tcattattaa tttttttcat ccatccttta attcagcaaa catttatctg 540
 ttgttgactt tatgcagtat ggccttttaa ggattggggg acagggtgaag aacgggggtgc 600
 cagaatgcat cctcactata atgaggctag tacacatttg cattttaaaa tgccctgtcc 660
 agctgggcat ggtggatcat gcctgtaate tcaacatttg aaggccaagg caggaggatt 720
 gcttcagccc aggagttcaa gaccagcctg ggcaacatag aaagacccca tctctcaatc 780
 aatcaatcaa tgccctgtct ttgaaaataa aactccttaa gaaaggttta atgggcaggg 840
 tgtggtagct catgcctata atacagcact ttgggaggct gaggcaggag gatcacttta 900
 gcccagaagt tcaagaccag cctgggcaac aagtgcacc tcatctcaat tttttaataa 960
 aatgaataca tacataagga aagataaaaa gaaaagttta atgaaagaat acagtataaa 1020
 acaaatctct tggacctaaa agtatttttg tcaagccaa atattgtgaa tcacctctct 1080
 gtgttgagga tacagaatat ctaagccag gaaactgagc agaaagttca tgtactaact 1140
 aatcaaccgc aggcaaggca aaaatgagac taactaatca atccgaggca aggggcaaat 1200
 tagacggaac ctgactctgg tctattaagc gacaactttc cctctgttgt atttttcttt 1260
 tattcaatgt aaaaggataa aaactctcta aaactaaaaa caatgtttgt caggagttac 1320
 aaaccatgac caactaatta tggggaatca taaaatatga ctgtatgaga tcttgatggg 1380
 ttacaaagtg taccactgt taactacttt aaacattaat gaacttaaaa atgaatttac 1440
 ggagattgga atgtttcttt cctgttgtat tagttggctc aggtgcccac aacaaaatac 1500
 cacagactgg gaggtttaag taacagaaat tcattttctca cagttctggg ggctggaagt 1560
 ccacgatcaa ggtgcaggaa aggcaggctt cattctgagg cccctctctt ggctcacatg 1620
 tggccaccct cccactgctt gctcacatga cctctttgtg ctctggaaa gaggggtgtgg 1680
 gggacagagg gaaagagaag gagagggaac tctctggtgt ctctctttc aaggacccta 1740
 acctgggcca ctttggccca ggcactgtgg ggtggggggg tgtggctgct ctgctctgag 1800
 tggccaagat aaagcaacag aaaaatgtcc aaagctgtgc agcaaagaca agccaccgaa 1860
 cagggatctg ctcatcagt tggggacctc caagtggcc accctggagg caagcccca 1920
 cagagcccat gcaaggtggc agcagcagaa gaagggaatt gtccctgtcc ttggcacatt 1980
 cctcacgcac ctggtgatgc tggacactgc gatgaatggg aatgtggatg agaatatgat 2040
 ggactccag aaaaggagac ccagctgctc aggtggctgc aaatcattac agccttcac 2100
 ctggggagga actggggggc tggttctggg tcagagagca gccagtgag ggtgagagct 2160
 acagcctgtc ctgccagctg gatccccagt cccggtcaac cagtaatcaa ggctgagcag 2220
 atcaggcttc cgggagctgg tcttgggaag ccagccctgg ggtgagttgg ctctgctgt 2280
 ggtactgaga caatattgtc ataaattcaa tgccgcttg tatccctttt tcttttttat 2340
 ctgtctacat ctataatcac tatgcatact agtctttgtt agtgtttcta ttomacttaa 2400
 tagagatatg ttatact 2417

<210> 335

<211> 2984

<212> DNA

<213> Homo sapien

<400> 335

atccctcctt cccactctc ctttcagaa ggcacttggg gtcttatctg ttggactctg 60
 aaaacacttc aggcgcctt ccaaggcttc cccaaacccc taagcagccg cagaagcgt 120
 cccgagctgc cttctccac actcaggtga tcgagttgga gaggaagttc agccatcaga 180

<213> Homo sapien

<400> 336

Pro	Ser	Phe	Pro	Thr	Leu	Leu	Ser	Arg	Arg	His	Leu	Gly	Ser	Tyr	Leu
1				5				10					15		
Leu	Asp	Ser	Glu	Asn	Thr	Ser	Gly	Ala	Leu	Pro	Arg	Leu	Pro	Gln	Thr
			20				25					30			
Pro	Lys	Gln	Pro	Gln	Lys	Arg	Ser	Arg	Ala	Ala	Phe	Ser	His	Thr	Gln
		35				40					45				
Val	Ile	Glu	Leu	Glu	Arg	Lys	Phe	Ser	His	Gln	Lys	Tyr	Leu	Ser	Ala
	50					55				60					
Pro	Glu	Arg	Ala	His	Leu	Ala	Lys	Asn	Leu	Lys	Leu	Thr	Glu	Thr	Gln
65				70				75					80		
Val	Lys	Ile	Trp	Phe	Gln	Asn	Arg	Arg	Tyr	Lys	Thr	Lys	Arg	Lys	Gln
			85				90						95		
Leu	Ser	Ser	Glu	Leu	Gly	Asp	Leu	Glu	Lys	His	Ser	Ser	Leu	Pro	Ala
			100				105						110		
Leu	Lys	Glu	Glu	Ala	Phe	Ser	Arg	Ala	Ser	Leu	Val	Ser	Val	Tyr	Asn
		115				120					125				
Ser	Tyr	Pro	Tyr	Tyr	Pro	Tyr	Leu	Tyr	Cys	Val	Gly	Ser	Trp	Ser	Pro
	130					135					140				
Ala	Phe	Trp													
145															

<210> 337

<211> 9

<212> PRT

<213> Homo sapien

<400> 337

Ala	Leu	Thr	Gly	Phe	Thr	Phe	Ser	Ala
1				5				

<210> 338

<211> 9

<212> PRT

<213> Homo sapien

<400> 338

Leu	Leu	Ala	Asn	Asp	Leu	Met	Leu	Ile
1				5				

<210> 339

<211> 318

<212> PRT

<213> Homo sapien

<400> 339

Met	Val	Glu	Leu	Met	Phe	Pro	Leu	Leu	Leu	Leu	Leu	Pro	Phe	Leu
1				5				10				15		

Leu Tyr Met Ala Ala Pro Gln Ile Arg Lys Met Leu Ser Ser Gly Val
 20 25 30
 Cys Thr Ser Thr Val Gln Leu Pro Gly Lys Val Val Val Thr Gly
 35 40 45
 Ala Asn Thr Gly Ile Gly Lys Glu Thr Ala Lys Glu Leu Ala Gln Arg
 50 55 60
 Gly Ala Arg Val Tyr Leu Ala Cys Arg Asp Val Glu Lys Gly Glu Leu
 65 70 75 80
 Val Ala Lys Glu Ile Gln Thr Thr Thr Gly Asn Gln Gln Val Leu Val
 85 90 95
 Arg Lys Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Lys
 100 105 110
 Gly Phe Leu Ala Glu Glu Lys His Leu His Val Leu Ile Asn Asn Ala
 115 120 125
 Gly Val Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Met
 130 135 140
 His Ile Gly Val Asn His Leu Gly His Phe Leu Leu Thr His Leu Leu
 145 150 155 160
 Leu Glu Lys Leu Lys Glu Ser Ala Pro Ser Arg Ile Val Asn Val Ser
 165 170 175
 Ser Leu Ala His His Leu Gly Arg Ile His Phe His Asn Leu Gln Gly
 180 185 190
 Glu Lys Phe Tyr Asn Ala Gly Leu Ala Tyr Cys His Ser Lys Leu Ala
 195 200 205
 Asn Ile Leu Phe Thr Gln Glu Leu Ala Arg Arg Leu Lys Gly Ser Gly
 210 215 220
 Val Thr Thr Tyr Ser Val His Pro Gly Thr Val Gln Ser Glu Leu Val
 225 230 235 240
 Arg His Ser Ser Phe Met Arg Trp Met Trp Trp Leu Phe Ser Phe Phe
 245 250 255
 Ile Lys Thr Pro Gln Gln Gly Ala Gln Thr Ser Leu His Cys Ala Leu
 260 265 270
 Thr Glu Gly Leu Glu Ile Leu Ser Gly Asn His Phe Ser Asp Cys His
 275 280 285
 Val Ala Trp Val Ser Ala Gln Ala Arg Asn Glu Thr Ile Ala Arg Arg
 290 295 300
 Leu Trp Asp Val Ser Cys Asp Leu Leu Gly Leu Pro Ile Asp
 305 310 315

<210> 340

<211> 483

<212> DNA

<213> Homo sapien

<400> 340

gccgaggtct	gccttcacac	ggaggacacg	agactgcttc	ctcaagggct	cctgcctgcc	60
tggacactgg	tgggaggcgc	tgtttagttg	gctgttttca	gaggggtctt	tcggaggggac	120
ctcctgctgc	aggctggagt	gtctttattc	ctggcgggag	accgcacatt	ccactgctga	180
ggttggtggg	gcggtttatc	aggcagtgat	aaacataaga	tgtcatttcc	ttgactccgg	240
ccttcaattt	tctctttggc	tgacgacgga	gtccgtgggtg	tcccgatgta	actgaccct	300
gctccaaacg	tgacatcact	gatgctcttc	tcgggggtgc	tgatggcccg	cttggtcacg	360

<400> 344

<210> 345

<211> 251

<212> DNA

<213> Homo sapien

<400> 345

<210> 346

<211> 282

<212> DNA

<213> Homo sapien

 $\langle 220 \rangle$

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (282)$

<223> n = A, T, C or G

<400> 346

<210> 347

<211> 201

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

$$\langle 222 \rangle \quad (1) \dots (201)$$

<223> n = A, T, C or G

<400> 347

acacacataa tattataaaa tgccatctaa ttggaaggag ctttctatca ttgcaagtca	60
taaatataac ttttaaaana ntactancag cttttaccta ngctcctaaa tgcttgtaaa	120
tctgagactg actggacca cccagacca gggcaaagat acatgttacc atatcatctt	180
tataaagaat ttttttttgt c	201

<210> 348

<211> 251

<212> DNA

<213> Homo sapien

<400> 348

ctgttaatca caacatttgt gcatcacttg tgccaagtga gaaaatgttc taaaatcaca	60
agagagaaca gtgccagaat gaaactgacc ctaagtccca ggtgcccctg ggcaggcaga	120
aggagacact cccagcatgg aggagggttt atcttttcat cctagggtcag gtctacaatg	180
ggggaagggt ttattataga actcccaaca gccacactca ctctgtccac ccaccgatg	240
gcctgtcctc c	251

<210> 349

<211> 251

<212> DNA

<213> Homo sapien

<400> 349

taaaaatcaa gccattttaat tgtatctttg aaggtaaaca atatatggga gctggatcac	60
aacccttgag gatgccagag ctatgggtcc agaacatggt gtggtattat caacagagtt	120
cagaagggtc tgaactctac gtgttaccag agaacataat gcaattcatg cattccactt	180
agcaattttg taaaatacca gaaacagacc ccaagagtct ttcaagatga ggaaaattca	240
actcctggtt t	251

<210> 350

<211> 908

<212> DNA

<213> Homo sapien

<400> 350

ctggacactt tgcgagggct tttgctggct gctgctgctg cccgtcatgc tactcatcgt	60
agcccgcctg gtgaagctcg ctgctttccc tacctcctta agtgactgcc aaacgcccac	120
cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa	180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca	240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa	300
tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga	360
aggatcatgt gccacagtcc atgaaggctc tggagaaact agtcaaaagg agacatccac	420
ctgtgatatt tgccagtttg gtgcagaatg tgacgaagat gccgaggatg tctggtgtgt	480
gtgtaatat gactgttctc aaaccaactt caatccccctc tgcgttctg atgggaaatc	540
ttatgataat gcatgccaaa tcaaagaagc atcgtgtcag aaacaggaga aaattgaagt	600
catgtctttg ggtcgatgtc aagataaac aactacaact actaagtctg aagatgggca	660
ttatgcaaga acagattatg cagagaatgc taacaaatta gaagaaagtg ccagagaaca	720
ccacatacct tgtccggaac attacaatgg cttctgcatg catgggaagt gtgagcattc	780
tatcaatatg caggagccat cttgcagggt tgatgctggt tatactggac aacactgtga	840


```
<210> 355
<211> 676
<212> DNA
<213> Homo sapien
```

```
<210> 356
<211> 574
<212> DNA
<213> Homo sapien
```

<400> 356							
tttttttttt	tttttcagga	aaacattctc	ttactttatt	tgcattctcag	caaaggttct		60
catgtggcac	ctgactggca	tcaaaccaa	gttcgtaggc	caacaaagat	gggccactca		120
caagcttccc	atttgtagat	ctcagtgcc	atgagtatct	gacacctgtt	cctctcttca		180
gtctcttagg	gaggcttaaa	tctgtctcag	gtgtgctaag	agtgccagcc	caaggkggtc		240
aaaagtccac	aaaactgcag	tctttgctgg	gatagtaagc	caagcagtc	ctggacagca		300
gagttctttt	cttgggcaac	agataaccag	acaggactct	aatcgtgctc	ttattcaaca		360
ttctttctgtc	tctgcctaga	ctggaataaa	aagccaatct	ctctcgtggc	acagggaagg		420
agatacaagc	tcgtttacat	gtgatagatc	taacaaaggc	atctaccgaa	gtctggctctg		480
gatagacggc	acagggagct	cttaggtcag	cgctgctggt	tggaggacat	tcctgagtc		540
aqcttttgcag	ccttttgtgca	acagtacttt	ccca				574

<400> 363

acccccgagt	ncttgntcgg	catactgnga	acgaccaacg	acacacccaa	gctcggcctc	60
ctcttgngga	ttctgggtga	catcttcatg	aatggcaacc	gtgccagwga	ggctgtcctc	120
tgggaggcac	tacgcaagat	gggactgcgt	cctggggtga	gacatcctct	ccttggagat	180
ctaacgaaac	ttctcaccta	tgagttgtaa	agcagaaata	cctgnactac	agacgagtgc	240
ccaacagcaa	ccccccggaa	gtatgagttc	ctctrggggc	tccgttccta	ccatgagasc	300
tagcaagatg	naagtgttga	gantcattgc	agaggttcag	aaaagagacc	cntcgtgact	360
ggtctgcaca	gttcatggag	gctgcagatg	aggccttggga	tgctctggat	gctgctgcag	420
ctgaggccga	agccccgggt	gaagcaagaa	ccgcgatggg	aattggagat	gaggctgtgt	480
ntgggccctg	gagctgggat	gacattgagt	ttgagctgct	gacctgggat	gaggaaggag	540
atthttggaga	tccntggtcc	agaattccat	ttaccttctg	ggccagatac	caccagaatg	600
cccgtctcaq	attccctcag	acctttgccg	gtcccattat	tggtcstggg	ggt	653

<211> 401

<212> DNA

<213> Homo sapien

<400> 364

actagaggaa	agacgttaaa	ccactctact	accacttgtg	gaactctcaa	agggtaaattg	60
acaaagccaa	tgaatgactc	taaaaacaat	atttacattt	aatggtttgt	agacaataaa	120
aaaacaaggt	ggatagatct	agaattgtaa	cattttaaga	aaaccatagc	atttgacaga	180
tgagaaaagct	caattataga	tgcaaagtta	taactaaact	actatagtag	taaagaaata	240
catttcacac	ccttcataata	aattcactat	cttggcttga	ggcactccat	aaaatgtatc	300
acgtgcatag	taaatcttta	tatttgctat	ggcgttgcac	tagaggactt	ggactgcaac	360
aaqtgqatgc	gcggaaaaatg	aaatcttctt	caatagccca	g		401

<210> 365

<211> 356

<212> DNA

<213> Homo sapien

<400> 365

ccagtgatcat	atttgggctt	aaaatttcaa	gaagggcact	tcaaattggct	ttgcatttgc	60
atgtttcagt	gctagagcgt	aggaatagac	cctggcgctc	actgtgagat	gttcttcagc	120
taccagagca	tcaagtctct	gcagcaggtc	attcttgggt	aaagaaatga	cttccacaaa	180
ctctccatcc	cctggctttg	gcttcggcct	tgcgttttcg	gcatcatctc	cgттаатggт	240
gactgtcacg	atgtgtatag	tacagtttga	caagcctggg	tccatacaga	ccgctggaga	300
acattcggca	atgtccctt	tgtagccagt	ttcttcttcg	agctcccgga	gagcag	356

<210> 366

<211> 1851

<212> DNA

<213> Homo sapien

<400> 366

tcatcaccat	tgccagcagc	ggcaccgtta	gtcaggtttt	ctgggaatcc	cacatgagta	60
cttcctgtgt	cttcattctt	cttcaatagc	cataaatctt	ctagctctgg	ctggctgttt	120
tcacttcctt	taagcctttg	tgactcttcc	tctgatgtca	gctttaagtc	ttgttctgga	180

```
<210> 367
<211> 668
<212> DNA
<213> Homo sapien
```

<210> 368
<211> 1512
<212> DNA

<213> Homo sapien

<400> 368

gggtcgccca	gggggsgegt	gggttttcc	cggtgggtg	tgggttttcc	ctgggtgggg	60
tgggtctgggc	trgaatcccc	tgtctgggtt	ggcaggtttt	ggctgggatt	gaacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggg	gaaactgggt	ggtagacgcg	180
atctgttgge	tactactggc	ttctcctggc	tgttaaaagc	agatgggtgg	tgaggttgat	240
tccatgccgg	ctgtttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tgggtgctgcc	gttgcttccc	ctgtctcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgtctcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagt	600
gccttcatgg	agcccaggta	ccacgtccgt	ggagaagatc	tggacaagct	ccacagagct	660
gcctgggtggg	gtaaagtccc	cagaaaggat	ctcatcgtca	tgtctaggga	cactgacgtg	720
aacaagaagg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgtt	aatgttgctg	900
gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
tcaaaaaaca	aggtatagat	ctactaattt	tatcttcaaa	atactgaaat	gcattcattt	1080
taacattgac	gtgtgtaagg	gccagtcttc	cgtattttgga	agctcaagca	taacttgaat	1140
gaaaatattt	tgaaatgacc	taattatctm	agactttatt	ttaaatattg	ttattttcaa	1200
agaagcatta	gagggtagag	tttttttttt	ttaaatgcac	ttctggtaaa	tacttttggt	1260
gaaaacactg	aattttgtaa	aggtataact	tactattttt	caatttttcc	ctcctaggat	1320
ttttttcccc	taatgaatgt	aagatggcaa	aattttgcct	gaaatagggt	ttacatgaaa	1380
actccaagaa	aagttaaaca	tgtttcagtg	aatagagatc	ctgtctcttt	ggcaagttcc	1440
taaaaaacag	taatagatac	gaggtgatgc	gcctgtcagt	ggcaagggtt	aagatatattc	1500
tgatctcgtg	cc					1512

<210> 369

<211> 1853

<212> DNA

<213> Homo sapien

<400> 369

gggtcgccca	gggggsgegt	gggttttcc	cggtgggtg	tgggttttcc	ctgggtgggg	60
tgggtctgggc	trgaatcccc	tgtctgggtt	ggcaggtttt	ggctgggatt	gaacttttytc	120
ttcaaacaga	ttggaaaccc	ggagttacct	gctagttggg	gaaactgggt	ggtagacgcg	180
atctgttgge	tactactggc	ttctcctggc	tgttaaaagc	agatgggtgg	tgaggttgat	240
tccatgccgg	ctgtttcttc	tgtgaagaag	ccatttggtc	tcaggagcaa	gatgggcaag	300
tgggtgctgcc	gttgcttccc	ctgtctcagg	gagagcggca	agagcaacgt	gggcacttct	360
ggagaccacg	acgactctgc	tatgaagaca	ctcaggagca	agatgggcaa	gtggtgccgc	420
cactgcttcc	cctgtctcag	ggggagtggc	aagagcaacg	tgggcgcttc	tggagaccac	480
gacgaytctg	ctatgaagac	actcaggaac	aagatgggca	agtgggtgctg	ccactgcttc	540
ccctgctgca	gggggagcrg	caagagcaag	gtgggcgctt	ggggagacta	cgatgacagy	600
gccttcatgg	akcccaggta	ccacgtccrt	ggagaagatc	tggacaagct	ccacagagct	660
gcctgggtggg	gtaaagtccc	cagaaaggat	ctcatcgtca	tgtctaggga	cackgaygtg	720
aacaagargg	acaagcaaaa	gaggactgct	ctacatctgg	cctctgccaa	tgggaattca	780
gaagtagtaa	aactcstgct	ggacagacga	tgtcaactta	atgtccttga	caacaaaaag	840
aggacagctc	tgayaaaggc	cgtacaatgc	caggaagatg	aatgtgcgtt	aatgttgctg	900

00593793-051300

gaacatggca	ctgatccaaa	tattccagat	gagtatggaa	ataccactct	rcactaygct	960
rtctayaatg	aagataaatt	aatggccaaa	gcactgctct	tatayggtgc	tgatatcgaa	1020
tcaaaaaaca	agcatggcct	cacaccactg	ytacttggtr	tacatgagca	aaaacagcaa	1080
gtsgtgaaat	ttttaatyaa	gaaaaaagcg	aattttaa	gcrcctggata	gatatggaag	1140
ractgctctc	atacttgctg	tatgttgtgg	atcagcaagt	atagtcagcc	ytctacttga	1200
gcaaaatrrt	gatgtatctt	ctcaagatct	ggaaagacgg	ccagagagta	tgctgtttct	1260
agtcatcatc	atgtaatttg	ccagttactt	tctgactaca	aagaaaaaca	gatgttaaaa	1320
atctcttctg	aaaacagcaa	tccagaacaa	gacttaaagc	tgacatcaga	ggaagagtca	1380
caaaggctta	aaggaagtga	aaacagccag	ccagaggcat	ggaaactttt	aaatttaaac	1440
ttttggttta	atgttttttt	tttttgcctt	aataatatta	gatagtccca	aatgaaatwa	1500
cctatgagac	taggctttga	gaatcaatag	attctttttt	taagaatctt	ttggctagga	1560
gcggtgtctc	acgcctgtaa	ttccagcacc	ttgagaggct	gaggtgggca	gatcacgaga	1620
tcaggagatc	gagaccatcc	tggctaacac	ggtgaaaccc	catctctact	aaaaatacaa	1680
aaacttagct	gggtgtggtg	gcgggtgcct	gtagtcccag	ctactcagga	rgctgaggca	1740
ggagaatggc	atgaaccg	gaggtggagg	ttgcagttag	ccgagatccg	ccactacact	1800
ccagcctggg	tgacagagca	agactctgtc	tcaaaaaaaa	aaaaaaaaaa	aaa	1853

<210> 370

<211> 2184

<212> DNA

<213> Homo sapien

<400> 370

ggcacgagaa	ttaaaaccct	cagcaaaaaca	ggcatagaag	ggacatacct	taaagtaata	60
aaaaccacct	atgacaagcc	cacagccaac	ataatactaa	atggggaaaa	gttagaagca	120
tttcctctga	gaactgcaac	aataaatata	aggatgctgg	attttgtcaa	atgccttttc	180
tgtgtctggt	gagatgctta	tgtgactttg	cttttaattc	tgtttatgtg	attatcacat	240
ttattgactt	gcctgtgtta	gaccggaaga	gctgggggtgt	ttctcaggag	ccaccgtgtg	300
ctgcggcagc	ttcgggataa	cttgaggctg	catcactggg	gaagaaacac	aytcctgtcc	360
gtggcgctga	tggtctgagga	cagagcttca	gtgtggcttc	tctgcgactg	gcttcttcgg	420
ggagttcttc	cttcatagtt	catccatatg	gctccagagg	aaaattatat	tattttgtta	480
tggatgaaga	gtattacgtt	gtgcagatat	actgcagtgt	cttcatctct	tgatgtgtga	540
ttgggtagg	tccaccatgt	tgccgcagat	gacatgattt	cagtacctgt	gtctggctga	600
aaagtgtttg	tttgtgaatg	gatatttgtg	tttctggatc	tcatcctctg	tgggtggaca	660
gctttctcca	ccttgctgga	agtgaacctg	tgtccagaag	tttgatggct	gaggagtata	720
ccatcgtgca	tgcatctttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtgggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtgggtg	ctgccactgc	ttcccctgct	gcagggggagc	ggcaagagca	900
acgtgggtcgc	ttggggagac	tacgatgaca	gcgccttcat	ggatcccagg	taccacgtcc	960
atggagaaga	tctggacaag	ctccacagag	ctgcctggtg	gggtaaagtc	cccagaaagg	1020
atctcatcgt	catgctcagg	gacacggatg	tgaacaagag	ggacaagcaa	aagaggactg	1080
ctctacatct	ggcctctgcc	aatgggaatt	cagaagtagt	aaaactcgtg	ctggacagac	1140
gatgtcaact	taatgtcctt	gacaacaaaa	agaggacagc	tctgacaaag	gccgtacaat	1200
gccaggaaga	tgaatgtgcg	ttaatgttgc	tggaaacatg	cactgatcca	aatattccag	1260
atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
aagcactgct	cttatacgg	gctgatatcg	aatcaaaaaa	caagcatggc	ctcacaccac	1380
tgctacttgg	tatacatgag	caaaaacagc	aagtggtgaa	atttttaatc	aagaaaaaag	1440
cgaatttaaa	tgcgctggat	agatatggaa	gaactgctct	catacttgct	gtatgttgtg	1500
gatcagcaag	tatagtcagc	cctctacttg	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	1620
ttctgactac	aaagaaaaac	agatgttaaa	aatctcttct	gaaaacagca	atccagaaca	1680

tacgaggtga tgcgcctgtc agtggcaagg ttttaagatat ttctgatctc gtgcc 1855

<210> 372
 <211> 1059
 <212> DNA
 <213> Homo sapien

<400> 372

gcaacgtggg	cacttctgga	gaccacaacg	actcctctgt	gaagacgctt	gggagcaaga	60
ggtgcaagtg	gtgctgccca	ctgcttcccc	tgctgcaggg	gagcggcaag	agcaacgtgg	120
gcgcttgrgg	agactmcgat	gacagygcct	tcattggagcc	caggtaccac	gtccgtggag	180
aagatctgga	caagctccac	agagctgccc	tggtggggta	aagtccccag	aaaggatctc	240
atcgtcatgc	tcagggacac	tgaygtgaac	aagarggaca	agcaaaagag	gactgctcta	300
catctggcct	ctgccaatgg	gaattcagaa	gtagtataaac	tcstgctgga	cagacgatgt	360
caacttaatg	tccttgacaa	caaaaagagg	acagctctga	yaaaggccgt	acaatgccag	420
gaagatgaat	gtgcgttaat	gttgcctgga	catggcactg	atccaaatat	tccagatgag	480
tatggaaata	ccactctrca	ctaygctrct	tayaatgaag	ataaattaat	ggccaaagca	540
ctgctcttat	aygggtgctga	tatcgaatca	aaaaacaagg	tatagatcta	ctaattttat	600
cttcaaaaata	ctgaaatgca	ttcattttta	cattgacgtg	tgtaagggcc	agtcttccgt	660
atttggaagc	tcaagcataa	cttgaatgaa	aatattttga	aatgacctaa	ttatctaaga	720
ctttattttta	aatattgtta	ttttcaaaga	agcattagag	ggtacagttt	ttttttttta	780
aatgcacttc	tggtaaatac	ttttgttgaa	aacactgaat	ttgtaaaagg	taataacttac	840
tattttttcaa	tttttccctc	ctaggatttt	tttcccttaa	tgaatgtaag	atggcaaaat	900
ttgccctgaa	ataggttttta	catgaaaact	ccaagaaaag	ttaaacatgt	ttcagtgaat	960
agagatcctg	ctcctttggc	aagtctctaa	aaaacagtaa	tagatacgag	gtgatgcgcc	1020
tgtcagtgcc	aaggtttaag	atattttctga	tctcgtgcc			1059

<210> 373
 <211> 1155
 <212> DNA
 <213> Homo sapien

<400> 373

atggtggttg	aggttgatgc	catgcgggt	gootottctg	tgaagaagcc	atttggtctc	60
aggagcaaga	tgggcaagtg	gtgctgccgt	tgttccccct	gctgcaggga	gagcggcaag	120
agcaacgtgg	gcacttctgg	agaccaagac	gactctgcta	tgaagacact	caggagcaag	180
atgggcaagt	ggtgcggcca	ctgcttcccc	tgtgcagggg	ggagtggcaa	gagcaacgtg	240
ggcgcttctg	gagaccacga	cgactctgct	atgaagacac	tcaggaacaa	gatgggcaag	300
tggtgctycc	actgcttccc	ctgctgcagg	gggagcggga	agagcaagggt	gggcgcttgg	360
ggagactacg	atgacagtgc	cttcatggag	cccaggtaac	acgtccgtgg	agaagatctg	420
gacaagctcc	acagagctgc	ctggtggggg	aaagtcccca	gaaaggatct	catcgtcatg	480
ctcagggaca	ctgacgtgaa	caagaaggac	aagcaaaaga	ggactgctct	acatctggcc	540
tctgccaatg	ggaattcaga	agtagtaaaa	ctcctgctgg	acagacgatg	tcaacttaat	600
gtccttgaca	acaaaaagag	gacagctctg	ataaaggccg	tacaatgcca	ggaagatgaa	660
tgtgcgttaa	tggtgctgga	acatggcact	gatocaaata	ttccagatga	gtatggaaat	720
accactctgc	actacgctat	ctataatgaa	gataaattaa	tgcccaaagc	actgctctta	780
tatggtgctg	atatcgaaac	aaaaaacaag	catggcctca	caccactggt	acttggtgta	840
catgagcaaa	aacagcaagt	cgtgaaatct	ttaatcaaga	aaaaagcgaa	tttaaatgca	900
ctggatagat	atggaaggac	tgtctctata	cttgcgtgat	gttgcggatc	agcaagtata	960
gtcagccttc	tacttgagca	aaatattgat	gtatcttctc	aagatctatc	tggacagacg	1020
gccagagagt	atgctgtttc	tagtcatcat	catgtaattt	gccagttact	ttctgactac	1080

0059793-0020500

```
<210> 374
<211> 2000
<212> DNA
<213> Homo sapien
```

```
<210> 375
<211> 2040
<212> DNA
<213> Homo sapien
```

<400> 375
atggttggttg aggttgattc catgccggct gctctctctg tgaagaagcc atttggtctc 60

```

aggagcaaga tgggcaagtg gtgctgccgt tgcttcccct gctgcaggga gagcggaag 120
agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180
atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240
ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300
tggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaagggt gggcgcttgg 360
ggagactacg atgacagtgc cttcatggag ccaggtacc acgtccgtgg agaagatctg 420
gacaagctcc acagagctgc ctggtggggt aaagtcccca gaaaggatct catcgctatg 480
ctcagggaca ctgacgtgaa caagaaggac aagcaaaaga ggactgctct acatctggcc 540
tctgccaatg ggaattcaga agtagtaaaa ctctgctgg acagacgatg tcaacttaat 600
gtccttgaca acaaaaagag gacagctctg ataaaggcgg tacaatgcca ggaagatgaa 660
tgtgcgttaa tggtgctgga acatggcact gatccaaata ttccagatga gtatggaaat 720
accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctta 780
tatggtgctg atatcgaaac aaaaaacaag catggcctca caccactgtt acttggtgta 840
catgagcaaa aacagcaagt cgtgaaatct ttaatcaaga aaaaagcgaa tttaaatgca 900
ctggatagat atggaaggac tgctctcata cttgctgtat gttgtggatc agcaagtata 960
gtcagccttc tacttgagca aaatattgat gtatctctc aagatctatc tggacagacg 1020
gccagagagt atgctgtttc tagtcatcat catgtaattt gccagttact ttctgactac 1080
aaagaaaaac agatgctaaa aatctcttct gaaaacagca atccagaaca agacttaaag 1140
ctgacatcag aggaagagtc acaaagggtc aaaggcagtg aaaatagcca gccagagaaa 1200
atgtctcaag aaccagaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260
aagcatgaaa gtaataatgt gggattacta gaaaacctga ctaatggtgt cactgctggc 1320
aatggtgata atggattaat tctcaaagg aagagcagaa cacctgaaaa tcagcaattt 1380
cctgacaacg aaagtgaaga gtatcacaga atttgcaat tagtttctga ctacaaagaa 1440
aaacagatgc caaaactctc ttctgaaaac agcaaccag aacaagactt aaagctgaca 1500
tcagaggaag agtcacaaag gcttgagggc agtgaaaatg gccagccaga gaaaagatct 1560
caagaaccag aaataaataa ggtatggtgat agagagctag aaaattttat ggctatcgaa 1620
gaaatgaaga agcacggaag tactcatgtc ggattcccag aaaacctgac taatggtgcc 1680
actgctggca atggtgatga tggattaatt cctccaagga agagcagaa acctgaaagc 1740
cagcaatttc ctgacactga gaatgaagay tatcacagt acgaacaaaa tgatactcag 1800
aagcaatttt gtgaagaaca gaacactgga atattacacg atgagattct gattcatgaa 1860
gaaaagcaga tagaagtggg tgaaaaaatg aattctgagc tttctcttag ttgtaagaaa 1920
gaaaaagaca tcttgcatga aaatagtacg ttgcgggaag aaattgccat gctaagactg 1980
gagctagaca caatgaaaca tcagagccag ctaaaaaaa aaaaaaaaaa aaaaaaaaaa 2040

```

<210> 376

<211> 329

<212> PRT

<213> Homo sapien

<400> 376

```

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe
 1             5             10             15
Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu
             20             25             30
Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser
             35             40             45
Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg
             50             55             60
Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val
65             70             75             80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val

```


	85		90		95
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr					
	100		105		110
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp					
	115		120		125
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp					
	130		135		140
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser					
145		150		155	160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys					
	165		170		175
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala					
	180		185		190
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly					
	195		200		205
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr					
	210		215		220
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr					
225		230		235	240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu					
	245		250		255
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys					
	260		265		270
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu					
	275		280		285
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu					
	290		295		300
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu					
305		310		315	320
Ser Met Leu Phe Leu Val Ile Ile Met					
	325				

<210> 377

<211> 148

<212> PRT

<213> Homo sapien

<220>

<221> VARIANT

<222> (1)...(148)

<223> Xaa = Any Amino Acid

<400> 377

Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile					
1	5		10		15
Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys					
	20		25		30
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys					
	35		40		45
Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu					
50		55		60	

Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly
 260 265 270
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val
 275 280 285
 Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr
 290 295 300
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile
 305 310 315 320
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu
 325 330 335
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val
 340 345 350
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile
 355 360 365
 Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys
 370 375 380
 Pro Arg Thr His Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser
 385 390 395 400
 Ser Val Lys Lys Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys
 405 410 415
 Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly
 420 425 430
 Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys
 435 440 445
 Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly
 450 455 460
 Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys
 465 470 475 480
 Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys
 485 490 495
 Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp
 500 505 510
 Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu
 515 520 525
 Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp
 530 535 540
 Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln
 545 550 555 560
 Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val
 565 570 575
 Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn
 580 585 590
 Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu
 595 600 605
 Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp
 610 615 620
 Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys
 625 630 635 640
 Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys
 645 650 655
 Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys

00503703-061300

Gly Lys Trp Cys Cys Arg Cys Phe Pro Cys Cys Arg Glu Ser Gly Lys
 1075 1080 1085
 Ser Asn Val Gly Thr Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr
 1090 1095 1100
 Leu Arg Ser Lys Met Gly Lys Trp Cys Arg His Cys Phe Pro Cys Cys
 1105 1110 1115 112
 Arg Gly Ser Gly Lys Ser Asn Val Gly Ala Ser Gly Asp His Asp Asp
 1125 1130 1135
 Ser Ala Met Lys Thr Leu Arg Asn Lys Met Gly Lys Trp Cys Cys His
 1140 1145 1150
 Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Lys Val Gly Ala Trp
 1155 1160 1165
 Gly Asp Tyr Asp Asp Ser Ala Phe Met Glu Pro Arg Tyr His Val Arg
 1170 1175 1180
 Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val
 1185 1190 1195 120
 Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys
 1205 1210 1215
 Lys Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly
 1220 1225 1230
 Asn Ser Glu Val Val Lys Leu Leu Leu Asp Arg Arg Cys Gln Leu Asn
 1235 1240 1245
 Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Ile Lys Ala Val Gln Cys
 1250 1255 1260
 Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro
 1265 1270 1275 128
 Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Ile Tyr
 1285 1290 1295
 Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp
 1300 1305 1310
 Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Val
 1315 1320 1325
 His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala
 1330 1335 1340
 Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala
 1345 1350 1355 136
 Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln Asn
 1365 1370 1375
 Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu Tyr
 1380 1385 1390
 Ala Val Ser Ser His His His Val Ile Cys Gln Leu Leu Ser Asp Tyr
 1395 1400 1405
 Lys Glu Lys Gln Met Leu Lys Ile Ser Ser Glu Asn Ser Asn Pro Glu
 1410 1415 1420
 Gln Asp Leu Lys Leu Thr Ser Glu Glu Glu Ser Gln Arg Phe Lys Gly
 1425 1430 1435 144
 Ser Glu Asn Ser Gln Pro Glu Lys Met Ser Gln Glu Pro Glu Ile Asn
 1445 1450 1455
 Lys Asp Gly Asp Arg Glu Val Glu Glu Glu Met Lys Lys His Glu Ser
 1460 1465 1470
 Asn Asn Val Gly Leu Leu Glu Asn Leu Thr Asn Gly Val Thr Ala Gly

000000-000000-000000


```
<210> 381
<211> 251
<212> DNA
<213> Homo sapien
```

```

ggagaagcgt ctgctggggc aggaaggggt ttccctgcc tctcacctgt cctcaccaa      60
ggtaacatgc ttcccctaag ggtatcccaa cccaggggcc tcaccatgac ctctgagggg    120
ccaatatccc aggagaagca ttggggagtt gggggcaggt gaaggaccca ggactcacac    180
atcctggggc tccaaggcag aggagagggt cctcaagaag gtcaggagga aaatccgtaa    240
caagcagtcg g

```

```
<210> 382
<211> 3279
<212> DNA
<213> Homo sapiens
```

cttctctgcag	ccccatgct	ggtgaggggc	acgggcagga	acagtggacc	caacatggaa	60
atgctggagg	gtgtcaggaa	gtgatcgggc	tctggggcag	ggaggagggg	tggggagtgt	120
cactgggagg	ggacatcctg	cagaaggtag	gagtgcagca	acaccgcctg	caggggaggg	180
gagagccctg	cggcacctgg	gggagcagag	ggagcagcac	ctgccagggc	ctgggaggag	240
gggcctggag	ggcgtgagga	ggagcgaggg	ggctgcattg	ctggagtgcg	ggatcagggg	300
cagggcgcg	gatggcctca	cacagggaag	agagggcccc	tctgtcaggg	cctcacctgg	360
gccacaggag	gacactgctt	ttcctctgag	gagtcaggag	ctgtggatgg	tgctggacag	420
aagaaggaca	gggcctggct	caggtgtcca	gaggtctgcg	ctggcttccc	tttgggatca	480
gactgcaggg	agggagggcg	gcagggttgt	ggggggagtg	acgatgagga	tgacctgggg	540
gtggctccag	gccttgcccc	tgccctgggc	ctcaccacgc	ctccctcaca	gtctcctggc	600
cctcagcttc	tccctccac	tccatcctcc	atctggcctc	agtgggtcat	tctgatcact	660
gaactgacca	taccagccc	tgcccacggc	cctccatggc	tccccaatgc	cctggagagg	720
ggacatctag	tcagagagta	gtcctgaaga	ggtggcctct	gcgatgtgcc	tgtgggggca	780
gcacctgc	gatggtccc	gccctcatcc	tgctgacctg	tctgcaggga	ctgtcctcct	840
ggaccttgcc	ccttgtgcag	gagctggacc	ctgaagtccc	ctcccatag	gccaaagactg	900
gagccttgtt	ccctctgttg	gactccctgc	ccatattctt	gtgggagtg	gttctggaga	960
catttctgtc	tgttcctgag	agctgggaat	tgctctcagt	catctgcctg	cgcggttctg	1020
agagatggag	ttgcctaggc	agttattggg	gccaatcttt	ctcactgtgt	ctctcctcct	1080
ttacccttag	ggtgattctg	ggggtccact	tgtctgtaat	ggtgtgcttc	aaggatatcac	1140
atcatggggc	cctgagccat	gtgcctgcc	tgaaaagcct	gctgtgtaca	ccaaggtgggt	1200
gcattaccgc	aagtggatca	aggacacat	cgcagccaac	cctcagtgcc	ccctgtccca	1260
cccctaccct	tagtaaat	aagtcacct	cacgttctgg	catcacttgg	cctttctgga	1320
tgctggacac	ctgaagcttg	gaactcacct	ggccgaagct	cgagcctcct	gagtcctact	1380
gacctgtgct	ttctgggtgtg	gagtcacagg	ctgctaggaa	aaggaatggg	cagacacagg	1440
tgtatgcaa	tgtttctgaa	atgggtataa	tttcgtcctc	tccttcggaa	cactggctgt	1500

<210> 383

<212> PRT

<400> 383

Pro Leu Gly Ser Asp Cys Arg Glu Gly Gly Arg Gln Gly Cys Gly Gly
65 70 75 80

tgagggtcag tggaagaacc tagactocca ttgctagagg tagaaagggg aagggtgctg 360
gggag 365

<210> 390
<211> 221
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (221)
<223> n = A,T,C or G

<400> 390
tgccctctcca tccctggcccc gacttctctg tcaggaaagt ggggatggac cccatctgca 60
tacacggntt ctcatgggtg tggaacatct ctgcttgagg ttccaggaag gcctctggct 120
gctctangag tctgancnga ntcgttgccc cantntgaca naaggaaagg cggagcttat 180
tcaaagtcta gaggagtggt aggagttaag gctggatttc a 221

<210> 391
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (325)
<223> n = A,T,C or G

<400> 391
tggagcaggt cccgaggcct ccctagagcc tggggccgac tctgtgncga tgcangcttt 60
ctctcgcgcc cagcctggag ctgctcctgg catctacca caatcagncg aggcgagcag 120
tagccagggc actgctgcc aacagccagtc cnnataccat catgtnaccc ggtgngctct 180
naantngat ntccanagcc ctacccatcn tagttctgct ctcccaccgg ntaccagccc 240
cactgccag gaatcctaca gccagtaccc tgtcccgacg tctctaccta ccagtacgat 300
gagacctccg gctactacta tgacc 325

<210> 392
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (277)
<223> n = A,T,C or G

<400> 392
atattgttta actccttctt ttatatcttt taacattttc atggngaaag gttcacatct 60
agtctcactt nggcnagnn ctccacttg agtctcttcc ccggcctggn ccagtngnaa 120
antaccanga accgncatgn cttaanaacn ncctgggttn tgggttnntc aatgactgca 180

00503703-05400

<400> 395							
ggcaaaactg	tgtgacctca	ataagacctc	gcagatccaa	ggtcaagtat	cagaagtgc		60
tctgaccttg	gactccaaga	cctacatcaa	cagcctggct	atattagatg	atgagccagt		120
tatcagaggt	ttcatcattg	cggaaattgt	ggagtctaag	gaaatcatgg	cctctgaagt		180
attcacgtct	ttccagtagc	ctgagttctc	tatagagttg	cctaacacag	gcagaattgg		240
ccagctactt	gtctgcaatt	gtatcttcaa	gaataacctg	gccatccctt	tgactgacgt		300
caagttctct	ttggaaaagc	tgggcatctc	ctcactacag	acctctgacc	atgggacggt		360

399

```
<210> 396
<211> 403
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(403)
<223> n = A,T,C or G
```

<400>	396						
tggagttntc	agtgcaaaca	agccataaag	cttcagtagc	aaattactgt	ctcacagaaa	60	
gacatttttc	acttctgctc	cagctgctga	taaaacaaat	catgtgttta	gcttgactcc	120	
agacaaggac	aacctgttcc	ttcataactc	tctagagaaa	aaaaggagtt	gttagtagat	180	
actaaaaaaaa	gtggatgaat	aatctggata	tttttccctaa	aaagattcct	tgaaacacat	240	
taggaaaatg	gagggcctta	tgatcagaat	gctagaatta	gtccattgtg	ctgaagcagg	300	
gtttagggga	gggagtgagg	gataaaagaa	ggaaaaaaaaag	aagagtgaga	aaacctattt	360	
atcaaaqcag	gtgctatcac	tcaatgttag	gcctgtctct	ttt		403	

```
<210> 397
<211> 100
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1)...(100)
<223> n = A,T,C or G
```

```
<400> 397
actagtncag tgtggtggaa ttgcgggcgc cgtcgacctt naanccatct ctatagcaaa 60
tccatccccg ctcttggttg gtnacagaat gactgacaaa 100
```

```
<210> 398
<211> 278
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1) ... (278)
<223> n = A,T,C or G
```

```
<400> 398
gcggccgcgt cgacagcagt tccgccagcg ctgcgccctg ggtggggatg tgctgcacgc 60
ccacctggac atctggaagt cagcggcctg gatgaaagag cggacttcac ctggggcgat 120
tcactactgt gcctcgacca gtgaggagag ctggaccgac agcgagggtg actcatcatg 180
ctccgggcag cccatccacc tgtggcagtt cctcaaggag ttgctactca agccccacag 240
ctatgcccgc ttcattangt ggctcaacaa ggagaagg          278
```


cccttttgca ttgccaagtg ccataaccat gagcactact ctaccatggn tctgc 355

<210> 402
 <211> 407
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (407)
 <223> n = A,T,C or G

<400> 402
 atggggcaag ctggataaag aaccaagacc cactggagta tgctgtcttc aagaaaccca 60
 tctcacatgc ggtggcatac ataggctcaa aataaaggaa tggagaaaaa tatttcaagc 120
 aaatggaaaa cagaaaaaag caggtgttgc actcctactt tctgacaaaa cagactatgc 180
 gaataaagat aaaaaagaga aggacattac aaagggtggtc ctgacctttg ataaatctca 240
 ttgcttgata ccaacctggg ctgttttaat tgcccaaacc aaaaggataa tttgctgagg 300
 ttgtggagct tctccctgc agagagtccc tgatctccca aaatttgggt gagatgtaag 360
 gntgattttg ctgacaactc cttttctgaa gttttactca tttccaa 407

<210> 403
 <211> 303
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1) ... (303)
 <223> n = A,T,C or G

<400> 403
 cagtatttat agcnaactg aaaagctagt agcaggcaag tctcaaatec aggcacccaaa 60
 tcctaagcaa gagccatggc atggtgaaaa tgcaaaaggga gagtctggcc aatctacaaa 120
 tagagaacaa gacctactca gtcatgaaca aaaaggcaga caccaacatg gatctcatgg 180
 gggattggat attgtaatta tagagcagga agatgacagt gatcgtcatt tggcacaaca 240
 tcttaacaac gaccgaaacc cattattttac ataaacctcc attcggtaac catgttgaaa 300
 gga 303

<210> 404
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 404
 aagtgttaact tttaaaaatt tagtggattt tgaaaattct tagaggaaag taaaggaaaa 60
 attgttaatg cactcattta cctttacatg gtgaaagttc tctcttgatc ctacaaacag 120
 acattttcca ctcggtgttc catagtgtt aagtgtatca gatgtgttgg gcatgtgaat 180
 ctccaagtgc ctgtgtaata aataaagtat ctttatttca ttcac 225

<210> 405

00593793-061300


```

ctgcttatca caatgaatgt tctcctgggc agcgttgtga tctttgccac cttcgtgact 60
ttatgcaatg catcatgcta tttcatacct aatgagggag ttccaggaga ttcaaccagg 120
atgtttctac acctgtgggt tatgacaaag acaactgcc aagaatcttc aagaaggagg 180
actgcaagta tatctgggtg agaagaagga ccaaaaaaag acctgttctg tcagtgaatg 240
gataatctaa tgtgcttcta gtaggcacag ggctoccagg ccaggcctca ttctcctctg 300
gcctctaata gtcaataatt gtgtagccat gcctatcagt aaaaagattt ttgagcaaac 360

```

<210> 439

<211> 431

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> (1) ... (431)

<223> n = A,T,C or G

<400> 439

```

gttcctnnta actcctgcc aaaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgcttct gcttttttcc tggctagacc 120
gaagtgtact agccaaggag ttgaagtgtg tgactttggg gtttcggcat ggagaccgaa 180
gtccatttga cacttttccc actgacccca taaaggaatc ctcattggca caaggatttg 240
gccaactcac ccagctgggc atggagcagc attatgaact tggagagtat ataagaaaga 300
gatataaaaa attcctgaat gagtcctata aacatgaaca gggttatatt cgaagcacag 360
acgttgaccg gactttgatg agtgctatga caaacctggc agcccgctga cgcggccgcg 420
aatttagtag t

```

431

<210> 440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 440

```

agagataaag cttaggtcaa agttcataga gttcccatga actatatgac tggccacaca 60
ggatcttttg tatttaagga ttctgagatt ttgcttgagc aggattagat aaggctgttc 120
tttaaatgtc tgaaatggaa cagatttcaa aaaaaaaccc cacaatctag ggtgggaaca 180
aggaaggaaa gatgtgaata ggctgatggg caaaaaacca atttacccat cagttccagc 240
cttctctcaa ggagaggcaa agaaaggaga tacagtggag acatctggaa agttttctcc 300
actggaaaac tgctactatc tgtttttata tttctgttaa aatatatgag gctacagaac 360
taaaaattaa aacctctttg tgcccttggg tcttggaaca tttatgttcc ttttaaagaa 420
acaaaaatca aactttacag aaagatttga tgtatgtaat acatatagca gctcttgaag 480
tatatatatc atagcaaata agtcacttga tgagaacaag cta

```

523

<210> 441

<211> 430

<212> DNA

<213> Homo sapiens

<400> 441

```

gttcctccta actcctgcc aaaaacagctc tctcaacat gagagctgca cccctcctcc 60
tggccagggc agcaagcctt agccttggct tcttgcttct gcttttttcc tggctagacc 120

```



```

atttgaagga tgaattgaga taatttattt caggtgccta gaacaatgcc cagattagta 480
catttggtgg aactgagaaa tggcataaca ccaaatttaa tatatgtcag atgttactat 540
gattatcatt caatctcata gttttgtcat ggcccaattt atcctcactt gtgcctcaac 600
aaattgaact gttaacaaag gaatctctgg tcttgggtaa tggctgagca ccaactgagca 660
tttccattcc agttggcttc ttgggtttgc tagctgcac actagtcac ttaaataaat 720
gaagttttaa catttctcca gtgattttt tatctcaoct ttgaagatac tatgttatgt 780
gattaaataa agaacttgag aagaacaggt ttcattaaac ataaaatcaa tgtagacgca 840
aattttctgg atgggcaata cttatgttca caggaaatgc tttaaaatat gcagaagata 900
attaaatggc aatggacaaa gtgaaaaact tagacttttt tttttttttt ggaagtatct 960
ggatgttcct tagtcactta aaggagaact gaaaaatagc agtgagtctc acataatcca 1020
acctgtgaga ttaaggctct ttgtggggaa ggacaaagat ctgtaaattt acagtttctc 1080
tccaaagcca acgtcgaatt ttgaaacata tcaaagctct tcttcaagac aaataatcta 1140
tagtacatct tcttatggg atgcacttat gaaaaatggg ggctgtcaac atctagtcac 1200
tttagctctc aaaatgggtc attttaagag aaagtttttag aatctcatat ttattcctgt 1260
ggaaggacag cattgtggct tggactttat aaggctctta ttcaactaaa taggtgagaa 1320
ataagaaagg ctgctgactt taccatctga ggccacacat ctgctgaaat ggagataatt 1380
aacatcacta gaaacagcaa gatgacaata taatgtctaa gtagtgacat gtttttgac 1440
atttccagcc cctttaaata tccacacaca caggaagcac aaaaggaagc acagagatcc 1500
ctgggagaaa tgccggcgcc ccatcttggg tcatcgatga gcctcgccct gtgcctgggtc 1560
ccgcttgtga gggaaggaca ttagaaaatg aattgatgtg ttcttaaag gatgggcagg 1620
aaaacagatc ctgttgtgga tatttatttg aacgggatta cagatttgaa atgaagtcac 1680
aaagtgagca ttaccaatga gaggaaaaca gacgagaaaa tcttgatggc ttcacaagac 1740
atgcaacaaa caaatggaa tactgtgatg acatgaggca gccaaagctgg ggaggagata 1800
accacggggc agagggtcag gattctggcc ctgctgccta aactgtgcgt tcataacca 1860
atcatttcat atttctaacc ctcaaaaaca agctgttgta atatctgac tctacggttc 1920
cttctggggc caacattctc catatatoca gccacactca tttttaatat ttagttocca 1980
gatctgtact gtgaccttcc tacactgtag aataacatta ctcattttgt tcaaagacc 2040
ttcgtgttgc tgcctaatat gtagctgact gtttttcccta aggagtgttc tggccagg 2100
gatctgtgaa caggctggga agcatctcaa gatctttcca gggttatact tactagcaca 2160
cagcatgac attacggagt gaattatcta atcaacatca tctcagtggt ctttgcccat 2220
actgaaatc atttcccact tttgtgocca ttctcaagac ctcaaatgt cattccatta 2280
atatcacagg attaaacttt ttttttaacc tggagaatc caatgttaca tgcagctatg 2340
ggaatttaat tacatatttt gttttccagt gcaaagatga ctaagtcctt tatccctccc 2400
ctttgtttga ttttttttcc agtataaagt taaaatgctt agccttgtac tgaggctgta 2460
tacagccaca gcctctcccc atccctccag ccttatctgt catcaccatc aaccctccc 2520
atgcacctaa acaaatctc acttgtaatt ccttgaacat gtcaggcata cattattcct 2580
tctgcctgag aagctcttcc ttgtctctta aatctagaat gatgtaaagt tttgaataag 2640
ttgactatct tacttcatgc aaagaaggga cacatatgag attcatcatc acatgagaca 2700
gcaaatacta aaagtgtaat ttgattataa gagtttagat aaatatatga aatgcaagag 2760
ccacagaggg aatgtttatg gggcacgttt gtaagcctgg gatgtgaagc aaaggcagg 2820
aacctcatag tatcttatat aatatacttc atttctctat ctctatcaca atatccaaca 2880
agcttttcac agaattcatg cagtgc aaat ccccaaagg aacctttatc catttcatgg 2940
tgagtgcgct ttagaatttt ggcaaatcat actggctcact tatctcaact ttgagatgtg 3000
tttgtccttg tagttaattg aaagaaatag ggcactcttg tgagccactt tagggttcac 3060
tcttggaat aaagaattta caaagagcaa aaaaaaaaaa aaaaaaaaaa aa 3112

```

<210> 469

<211> 2229

<212> DNA

<213> Homo sapiens

<400> 469

```

agctctttgt aaattcttta ttgccaggag tgaaccctaa agtgggtcac aagagtgtcc 60
tatttctttc aattaactac aaggacaaac acatctcaaa gttgagataa gtgaccagta 120
tgatttgcca aaattctaaa ggcactcac catgaaatgg ataaagggtta cctttgggga 180
tttgcactgc atgaattctg tgaaaagctt gttggatatt gtgatagaga tagagaaatg 240
aagtatatta tataagatac tatgagggtc cctgcctttg cttcacatcc caggcttaca 300
aacgtgtccc ataaacattc cctctgtggc tcttgcatth catatattta tctaaactct 360
tataatcaaa tacactttta gtatttgctg tctcatgtga tgatgaatct catatgtgtc 420
ccttctttgc atgaagtaag atagtcaact tattcaaaac ttacatcat tctagattta 480
agagacaagg aagagcttct caggcagaag gaataatgta tgctgacat gttcaaggaa 540
ttacaagtta gattttgttt aggtgcatgg gaggggttga tggatgatgac agataaggct 600
ggagggatgg ggagaggctg tggctgtata cagctcagt acaaggctaa gcattttaac 660
tttatactgg aaaaaaatc aaacaaaggg gagggataaa ggacttagtc atctttgcac 720
tggaaaacaa aatatgtaat taaattccca tagctgcatg taacattgaa ttctccagg 780
ttaaaaaaaa agttaatcct gtgatattaa tggatgaca ttttgaggct ttgagaatgg 840
gcacaaaagt gggaaatgaa ttacagtatg ggcaaagaca ctgaggatga tgttgattag 900
ataattcact ccgtaatgat catgctgtgt gctagtaagt ataacctgg aaagatcttg 960
agatgcttcc cagcctgttc acagatcccc tgggccagaa cactccttag gaaaacagt 1020
cagctacata ttaggcagca acacgaaggg tctttgaaca aatgagtaa tgttattcta 1080
cagtgtagaa aggtcacagt acagatctgg gaactaaata ttaaaaatga gtgtggctgg 1140
atatatggag aatgttgggc ccagaaggaa ccgtagagat cagatattac aacagctttg 1200
ttttgagggt tagaaatatg aatgattttg gttatgaacg cacagtttag gcagcagggc 1260
cagaatcctg acctctgcc ccgtggttat ctctcccca gcttggctgc ctcatgtcat 1320
cacagtattc cattttgttt gttgcatgtc ttgtgaagcc atcaagattt tctcgtctgt 1380
tttctctca ttggaatgc tactttgtg acttcatttc aaatctgtaa tcccgttcaa 1440
ataaatatcc acaacaggat ctgttttctt gccatcctt taagggaacac atcaattcat 1500
tttctaattg cttccctca caagcgggac caggcacagg gcgaggctca tcatgaccc 1560
aagatggcgg ccgggcattt ctcccaggga tctctgtgct tctttttgtg cttcctgtgt 1620
gtgtggatat ttaagggggc tggaaatgtg caaaaacatg tcaactacta gacattatat 1680
tgtcatcttg ctgtttctag tgatgttaat tatctccatt tcagcagatg tgtggcctca 1740
gatggtaaag tcagcagcct ttcttatttc tcacctggaa atacatacga ccatgtgagg 1800
agacaaatgg caaggtgtca gcataacctg aacttgagtt gagagctaca cacaatatta 1860
ttggtttccg agcatcacia acacctctc tgtttcttca ctgggcacag aattttaata 1920
cttatttcag tgggctgttg gcaggaacaa atgaagcaat ctacataaag tcaactagtgc 1980
agtgcctgac acacaccatt ctcttgaggt cccctctaga gatccacag gtcattatgac 2040
ttcttgggga gcagtggctc acacctgtaa tcccagcact ttgggaggct gaggcagggtg 2100
ggtcacctga ggtcaggagt tcaagaccag cctggccaat atggtgaaac cccatctcta 2160
ctaaaaatac aaaaattagc tgggcgtgct ggtgcatgcc tgtaatccca gcccacacac 2220
aatggaatt 2229

```

<210> 470

<211> 2426

<212> DNA

<213> Homo sapiens

<400> 470

```

gtaaattctt tattgccagg agtgaaccct aaagtggctc acaagagtgc cctatttctt 60
tcaattaact acaaggacaa acacatctca aagttgagat aagtgaccag tatgatttgc 120
caaaattcta aagcgactc accatgaaat ggataaagggt tacctttggg gatttgcact 180
gcatgaattc tgtgaaaagc ttgttgata ttgtgataga gatagagaaa tgaagtatat 240
tatataagat actatgaggt tccctgcctt tgcttcacat cccaggctta caaacgtgcc 300

```



```

ccataaacat tccctctgtg gctcttgcac ttcatatatt tatctaaact cttataatca 360
aattacactt ttagtatttg ctgtctcatg tgatgatgaa tctcatatgt gtcccttctt 420
tgcatgaagt aagatagtc aacttattcaa aactttacat cattctagat ttaagagaca 480
aggaagagct tctcaggcag aaggaataat gtatgcctga catgttcaag gaattacaag 540
ttagattttg tttaggtgca tgggaggggt tgatgggtgat gacagataag gctggaggga 600
tggggagagg ctgtggctgt atacagcctc agtacaaggc taagcatttt aactttatac 660
tggaaaaaaa atcaaacaaa ggggagggat aaaggactta gtcacttttg cactggaaaa 720
caaaatatgt aattaaattc ccatagctgc atgtaacatt gaattcttcc aggttaaaaa 780
aaaaagttaa tccctgtgata ttaatggaat gacattttga ggtcttgaga atgggcacaa 840
aagtgggaaa tgaatttcag tatgggcaaa gacactgagg atgatgttga ttagataatt 900
cactccgtaa tgatcatgct gtgtgctagt aagtataacc ctggaaagat cttgagatgc 960
ttcccagcct gttcacagat cccctgggac agaactctcc ttaggaaaaa cagtcagcta 1020
catattagga agcaacacga aggtcttttg aacaaaatga gtaatgttat tctacagtgt 1080
agaaaggtca cagtacagat ctgggaacta aatattaaaa atgagtgttg ctggatatac 1140
ggagaatgtt gggccagaa ggaaccgtag agatcagata ttacaacagc tttgttttga 1200
gggttagaaa tatgaaatga tttggttatg aacgcacagt ttaggcagca gggccagaat 1260
cctgaccctc tgccccgtgg ttatctctc cccagcttgg ctgcctcatg tcatcacagt 1320
attccatttt gttgttgca tgtcttctga agccatcaag atttctctgt ctgttttctt 1380
ctcattggta atgctcactt tgtgacttca tttcaaactc gtaatccctg tcaaataaat 1440
atccacaaca ggatctgttt tccctgccat cctttaagga acacatcaat tcattttcta 1500
atgtccttcc ctcacaagcg ggaccaggca cagggcgagg ctcatcgatg acccaagatg 1560
gcgccggggc atttctccca gggatctctg tgcctcttct tgtgcttctt gtgtgtgtgg 1620
atatttaaa gggctggaaa tgtgcaaaaa catgtcacta cttagacatt atattgtcat 1680
cttgctgttt ctagtgatgt taattatctc catttcagca gatgtgtggc ctcagatggg 1740
aaagtcagca gcctttctta tttctcacct ggaaatacat acgaccattt gaggagacaa 1800
atggcaaggt gtcagcatac cctgaacttg agttgagagc tacacacaat attattgggt 1860
tccgagcatc acaaacaccc tctctgtttc ttcactgggc acagaatttt aatacttatt 1920
tcagtgggct gttggcagga acaaatgaag caatctacat aaagtcacta gtgcagtgcc 1980
tgacacacac cattctcttg aggtccctc tagagatccc acaggtcata tgacttcttg 2040
gggagcagtg gctcacacct gtaatcccag cactttggga ggctgaggca ggtgggtcac 2100
ctgaggtcag gagttcaaga ccagcctggc caatatgggt aaaccccatc tctactaaaa 2160
atacaaaaat tagctgggag tgcctgtgca tgccgtgtaat cccagctact tgggaggctg 2220
aggcaggaga attgctggaa catgggaggg ggaggttgca gtgagctgta attgtgccat 2280
tgactcgaa cctgggagac agagtgggac tctgtttcca aaaaacaaac aaacaaaaaa 2340
ggcatagtca gataaacgt ggggtgggat tgtaaataga agcaggatat aaagggcatg 2400
gggtgacggt tttgccaac acaatg                                     2426

```

<210> 471

<211> 812

<212> DNA

<213> Homo sapiens

<400> 471

```

gaacaaaatg agtaatgtta ttctacagt tagaaaggtc acagtacaga tctgggaact 60
aaatattaaa aatgagtgtg gctggatata tggagaatgt tggggccaga aggaaccgta 120
gagatcagat attacaacag ctttgttttg agggttagaa atatgaaatg atttggttat 180
gaacgcacag tttaggcagc agggccagaa tccctgaccct ctgccccgtg gttatctcct 240
ccccagcttg gctgcctcat gtcacacag tattccattt tgtttgttgc atgtcttctg 300
aagccatcaa gattttctcg tctgttttcc tctcattggg aatgctcact ttgtgacttc 360
atttcaaate tgtaatcccg ttcaaataaa tatccacaac aggatctgtt ttctgcca 420
tcctttaagg aacacatcaa ttcattttct aatgtccttc ctcacaagc gggaccaggc 480

```

```
<210> 472
<211> 515
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> (1) ... (515)
<223> n = A, T, C or G
```

```
<210> 473
<211> 5829
<212> DNA
<213> Homo sapiens
```

<400> 473					
cgc	atg	cgc	gg	ccg	60
cct	gg	acc	ag	cc	120
tg	ca	cag	cc	tg	180
gat	gg	ca	cat	tt	240
cag	tc	cat	gc	tc	300
tg	cc	at	cc	ag	360
ttt	ga	gc	gag	tc	420
gt	ga	gc	tt	gt	480
gca	at	gg	cg	tc	540
ttg	gt	act	g	tc	600
cc	ag	ctt	gg	c	660
ac	ac	ag	ag	g	720
ag	t	cc	at	gc	780
gg	c	ctt	ctt	g	840
ag	act	a	ag	cc	900
act	cg	gag	ca	g	960
aa	g	g	a	ca	1020


```

aaactttcta ataagagtta acttagagcc atttaagaaa ggaaaaaaca caaattatca 4140
gaaaaacaac agtaagatca agtgcaaaag ttctgtggca aagatgatga gagtaaagaa 4200
tatatgtttg tgactcatgg tggctttttac tttgttcttg aatttctgag tacgggttaa 4260
catttaaaga atctacatta tagataacat tttattgcaa gttaatgtat ttcaaaattt 4320
gttattgggtt ttgtatgaga ttattctcag cctacttcat tatcaagcta tattatttta 4380
ttaatgtagt tcgatgatct tacagcaaag ctgaaagctg tatcttcaaa atatgtctat 4440
ttgactaaaa agttattcaa caggagttat tatctataaa aaaaatacaa caggaatata 4500
aaaaacttga ggataaaaag atgttggaaa aagtaatat aaatcttaa aaacatatgg 4560
aaactacaca atgggtgaaga cacattgggtg aagtacaaaa atataaattg gatctagaag 4620
aaagggcaat gcaggcaata gaaaaattag tagaaatccc tttaaagggtt agtttgtaaa 4680
atcaggtaag tttatttata atttgctttc atttatttca ctgcaaatta tattttggat 4740
atgtatatat attgtgcttc ctctgcctgt cttacagcaa tttgccttgc agagttctag 4800
gaaaaagggtg gcatgtgttt ttactttcaa aatattttaa tttccatcat tataacaaaa 4860
tcaatttttc agagtaatga ttctcactgt ggagtcattt gattattaag acccggtggc 4920
ataagattac atcctctgac tataaaaatc ctggaagaaa acctaggaaa tattcgctctg 4980
gacattgcac ttggcaatga atttatgggt aacctctgat ccacttccag tcactatcca 5040
tgagttttta tttccagata catgaaatca tatgagttga aactttcttt tgattgagca 5100
gtttggaaac cgtctttttg tagaatctgc aagtggatat ttggaacctt ttgaggccta 5160
tgctgaaaaa agaaatatct tcactacatg atgaccacca gcagcagctg gggaaaccag 5220
cacctgtgg aattccatac ggtgcataga atacatctc ccttcagtcg gcttgggtca 5280
acttaggtca tgggccacct ggctgatagc agtttccaca gaaatgcttc aagatgaaag 5340
tggatgaccg ggccaccctc caccactgcc ctgtaagacc atgggacaca caggccacca 5400
gttcttttca tgtggtcatc ccctgttaga tgggagaaaa tacacctgcc tcatttttgt 5460
accttctgtg tgaacattcc acggcagact gtcgctaaat gtggatgaag aattgaatga 5520
atgaatgaat atgagagaaa atgaataaat ggttcagatc ctgggctgga aggctgtgta 5580
tgaggatggt gggtagagga gggctctgtt ttcttgctt taagtcacta attgtcactt 5640
tggggcagga gcacaggctt tgaatgcaga ccgactggac ttttaattctg gctttactag 5700
ttgtgattgt gtgacctgtt gaaagttact taaacctct gtgcctgttt ctttatctgt 5760
aaaatggaga taataagatg tcaaaggact gtggaagaa ttaaagctt taaaaaaaaa 5820
aaaaaaaaa 5829

```

<210> 474

<211> 1594

<212> DNA

<213> Homo sapiens

<400> 474

```

atztatggat cattaatgcc tcttttagtag tttagagaaa acgtcaaaag aaatggcccc 60
agaataagct tcttgatttg taaaattcta tgtcattggc tcaaatttgt atagtatctc 120
aaaatataaa tatatagaca tctcagataa tatatttgaa atagcaaatt cctgttagaa 180
aataatagta cttaactaga tgagaataac aggtcgccat tatttgaatt gtctcctatt 240
cgtttttcat ttgttgtgtt actcatgttt tacttatgag ggatatatat aacttccact 300
gttttcagaa ttattgtatg cagtcagtat gagaatgcaa ttttaagtttc cttgatgctt 360
tttcacactt ctattactag aaataagaat acagtaatat tggcaaagaa aattgaccag 420
ttcaataaaa ttttttagta aatctgattg aaaataaaca ttgcttatgg ctttcttaca 480
tcaatattgt tatgtcctag acaccttate tgaaattacg gcttcaaaat tctaattatg 540
tgcaaatgtg taaaatatca atactttatg ttcaagctgg ggcctcttca ggctgctgg 600
gctgagagag aaagatgcta gctcgcgaag ccggagaggg aacaccgcca cattgttaca 660
cggacacacc gccacgtgga cacatgacca gactcacatg tacagacaca cggagacatt 720
accacatgga gacaccgtca cacagtcaca cggacacact ggcatagtca catggacgga 780
cacacagaca tatggagaaa tcacatggac acaccaccac actatcacag ggacacagac 840

```

```
<210> 475
<211> 2414
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> unsure
<222> (33)
<223> n=A,T,C or G
```

<400>	475					
cccaacacaa	tggttttata	agaatgtctt	acntgtgaaa	aacaaatatc	aaagtcttct	60
tgtagattat	ttttaaggac	aaatctttat	tccatgttta	at ttatttag	ctttccctgt	120
agctaataat	tcatgtctgaa	cacattttaa	atgtctgaaa	tgtagataat	gtaatttatg	180
tatcattaat	gcctctttag	tagtttagag	aaaacgtcaa	aagaaatggc	cccagaataa	240
gcttcttgat	ttgtaaaatt	ctatgtcatt	ggctcaaatt	tgtatagtat	ctcaaaatat	300
aaatatatag	acatctcaga	taatataatt	gaaatagcaa	attcctgtta	gaaaataata	360
gtacttaact	agatgagaat	aacaggctgc	cattatttga	attgtctcct	attcgttttt	420
catttgttgt	gttactcatg	ttttacttat	ggggggatat	atataaactt	cgctgttttc	480
agaagtattg	tatgcagtca	gtatgagaat	gcaatttaag	tttccctgat	gctttttcac	540
acttctatta	ctagaaataa	gaatacagta	atattggcaa	agaaaattga	ccagttcaat	600
aaaatttttt	agtaaatctg	attgaaaata	aacattgctt	atggctttct	tacatcaata	660
ttgttatgtc	ctagacacct	tatctgaaat	tacggcttca	aaattctaata	tatgtgcaaa	720
tgtgtaaaat	atcaatactt	tatgttcaag	ctggggcctc	ttcaggcgct	ctgggctgag	780
agagaaagat	gctagctccg	caagccgggg	agggaacacc	gccacattgt	tacatggaca	840
caccgccacg	tggacacatg	accagactca	catgtacaga	cacacggaga	cattaccaca	900
tggagacacc	gtcacacagt	cacacgagca	cactggcata	gtcacatgga	cggacacaca	960
gacatatgga	gaaatcacac	tgacacacca	ccacactatc	acagggacac	agacacacgg	1020
agacatcacc	acatggacac	actgtcacac	taccacaggg	acacgagaca	tcacactgtc	1080
acatggacac	accatcacac	acatgaacac	accgacacac	tgccatatgg	acactgccac	1140
acacactgcc	acactgtcac	atggacacac	ctccatacca	tcacaccacc	acacacactg	1200
ccatgtggac	acaaggacac	acagacactg	tcacacagat	acacaaaaca	ctgtcacacg	1260
gagacatcac	catgcagata	caccaccaca	tggacatagc	accagacact	ctgccacaca	1320
gatacaccac	cacacagaaa	tgccggacaca	ctgccacaca	gacaccacca	catcgttgcc	1380
acactttcat	gtgtcagctg	gcgggtgtgg	ccccacgact	ctgggctcta	atcgagaaat	1440
tacttggaca	tatagtgaag	gcaaaatttt	tttttatttt	ctgggtaacc	aagcgcgact	1500
ctgtctcaaa	aaaagaaaaa	aaaagcaata	tactgtgtaa	tcgttgacag	cataattcac	1560

```
<210> 476
<211> 3434
<212> DNA
<213> Homo sapiens
```

<400>	476					
ctgtgctgcā	aatgggggcca	tatagaggaa	aggagcagct	ggctctggag	catggtgtgc	60
actccctttg	ggccttcagt	ccatgtctca	tgggtcgtat	gacactgcgg	gcttgttggg	120
tgccaagagg	cagaccacag	gtcatcttga	ggaggacttt	atgttccagt	ccagaaagca	180
gccagtggta	ccaccaggg	gacttgtgct	tctgtggccc	aggccagacg	tagaatttga	240
caaagtacgg	acgggtctcag	tcagagcagc	atgtcgggcc	ccggggcctg	tgcatgccgg	300
gcagggccag	gctggcttaa	ggagcaagca	gccacctctg	ttaggggtgt	gcctggagca	360
ggtggagcag	ccaccaacct	cacgcactga	aagaagcagg	gatggccagg	ttccaacatc	420
ctgagtggct	gccacctgat	ggctgatgga	gcagaggcct	gaggaaaagc	agatggcact	480
gctttgtagt	gctgttcttt	gtctctcttg	atctttttca	gttaatgtct	gttttatcag	540
agactaggat	tgcaaaccct	gctctttttt	gctttccatt	tgcttggtaa	atattcctcc	600
atccctttat	tttaagccta	tgtgtgtctt	tgccatgag	atgggtctcc	tgaatacagg	660
acaacaatgg	gtctttactc	tttatccaac	ttgccagtct	gtgtctttta	actggggcat	720
ttagcccatt	tacatttaag	tttagtattt	gttacatgtg	aaatttatcc	tgtcatgatg	780
ttgctagctt	tttatttttc	ccattagttt	gcagtttctt	tatagtgtca	atgggtcttta	840
caattcgata	tgtttttgta	gtggctggta	ctggtttttc	ctttctacgt	ttagtgtctc	900
cttcaggagc	tcttgtaaca	caagaatgtg	gatttatttc	ttgtaaggta	aatatgtgga	960
tttattctgg	gactgtattc	tatggccttt	accccaagaa	tcattacttt	ttaaaatgca	1020
attcaaatta	gcataaaaaca	tttacagcct	atggaaaggc	ttgtggcatt	agaatcctta	1080
tttataggat	tattttgtgt	ttttttgaga	tatggtcttt	gtcatcgagg	cagaagtgcc	1140
gtggtttgat	cataattcac	cacagccctg	aactcttgag	tccaagccat	ccttttgctt	1200
taatctocca	accagttgga	tctacaagca	taaggcatca	tgctgggcta	attttttcac	1260
gttttttttt	tttttgcga	gattatggta	tcactgtggt	gctctggctg	atctcaaattg	1320
tttgacctca	agggatcttt	ctgccacagc	ctcctaaagt	gctaggatta	tatgcatgat	1380
acaccatgcc	tattgtagag	tattacatta	ttttcaaagt	cttattgtaa	gagccattta	1440
ttgccttttg	cctaaataac	tcaatataat	atctctgaaa	cttttttttg	acaaattttg	1500
gggcgtgatg	atgagagaag	ggggtttgaa	actttctaat	aagagttaac	ttagagccat	1560
ttaagaaaagg	aaaaaacaca	aattatcaga	aaaacaacag	taagatcaag	tgcaaaagtt	1620
ctgtggcaaa	gatgatgaga	gtaaagaata	tatgtttgtg	actcatggtg	gcttttactt	1680
tgttcttgaa	tttctgagta	cgggttaaca	tttaaagaat	ctacattata	gataacattt	1740

tattgcaagt aaatgtatatt caaaatttgt tattgggtttt gtatgagatt attctcagcc 1800
tacttcatta tcaagctata ttattttatt aatgtagttc gatgatctta cagcaaagct 1860
gaaagctgta tcttcaaaat atgtctatatt gactaaaaag ttattcaaca ggaggttatta 1920
tctataaaaa aatacaacag gaataataaaa aacttgagga taaaaagatg ttggaaaaag 1980
taatattaaa tcttaaaaaa catatggaaa ctacacaatg gtgaagacac attggtgaag 2040
tacaaaaata taaattggat ctagaagaaa gggcaatgca ggcaatagaa aaattagtag 2100
aaatcccttt aaagggttagt ttgtaaaatc aggtaagttt atttataatt tgctttcatt 2160
tatttcactg caaattatat tttggatatg tatatatatt gtgcttcctc tgctgtctt 2220
acagcaattt gccttgacaga gttctaggaa aaagggtggca tgtgttttta ctttcaaaat 2280
atttaaattt ccatcattat aacaaaatca atttttcaga gtaatgattc tcaactgtgga 2340
gtcatttgat tattaagacc cgttggcata agattacatc ctctgactat aaaaatcctg 2400
gaagaaaacc taggaaatat tctgtctggac attgcacttg gcaatgaatt tatgggcgct 2460
ttggaatcct gcagatataa taatgataat taaacaaac actcagagaa actgccaacc 2520
ctaggatgaa gtatattggt actgtgcttt gggattaaaa taagtaacta cagtttatag 2580
aacttttata ctgatacaca gacactaaaa agggaaaggg tttagatgag aagctctgct 2640
atgcaatcaa gaatctcagc cactcatttc tgtaggggct gcaggagctc cctgtaaaga 2700
gagggttatgg agtctgtagc ttcaggtaag atacttaaaa ccttcagag tttctccatt 2760
ttttcccata gtttcccaa aaagggttatg acactttata agaatgcttc acttgtgaaa 2820
aacaaatatac aaagtcttct tgtagattat ttttaaggac aaatctttat tccatgttta 2880
atttatttag ctttccctgt agctaattat tcatgctgaa cacattttta atgctgtaaa 2940
tgtagataat gtaatttatg tatcattaat gcctcttttag tagtttagag aaaacgtcaa 3000
aagaaatggc ccagaaataa gcttcttgat ttgtaaaatt ctatgtcatt ggctcaaatt 3060
tgtatagtat ctcaaaatat aaatatatag acatctcaga taatatattt gaaatagcaa 3120
attcctgtta gaaaataata gtacttaact agatgagaat aacaggctgc cattatttga 3180
attgtctcct attcgttttt catttggtgt gttactcatg ttttacttat ggggggatat 3240
atataacttc cgctgttttc agaagtattg tatgcagtca gtatgagaat gcaatttaag 3300
tttcttgat gctttttcac acttctatta ctagaataa gaatacagta atattggcaa 3360
agaaaattga ccagttcaat aaaatttttt agtaaactctg attgaaaata aaaaaaaaaa 3420
aaaaaaaaa aaaa 3434

<210> 477

<211> 141

<212> PRT

<213> Homo sapiens

<400> 477

Met Asp Gly His Thr Asp Ile Trp Arg Asn His Met Asp Thr Pro Pro

5

10

15

His Tyr His Arg Asp Thr Asp Thr Arg Arg His His His Met Asp Thr

20

25

30

Leu Ser His Tyr His Arg Asp Thr Arg His His Thr Val Thr Trp Thr

35

40

45

His His His Thr His Glu His Thr Asp Thr Leu Pro Tyr Gly His Trp

50

55

60

His Thr His Cys His Thr Val Thr Trp Thr His Leu His Thr Ile Thr

65

70

75

80

```
<210> 479
<211> 223
<212> PRT
<213> Homo sapiens
```


<400> 479

Met	Tyr	Arg	His	Thr	Glu	Thr	Leu	Pro	His	Gly	Asp	Thr	Val	Thr	Gln
				5					10					15	
Ser	His	Glu	His	Thr	Gly	Ile	Val	Thr	Trp	Thr	Asp	Thr	Gln	Thr	Tyr
			20					25					30		
Gly	Glu	Ile	Thr	Leu	Thr	His	His	His	Thr	Ile	Thr	Gly	Thr	Gln	Thr
			35				40					45			
His	Gly	Asp	Ile	Thr	Thr	Trp	Thr	His	Cys	His	Thr	Thr	Thr	Gly	Thr
	50					55					60				
Arg	Asp	Ile	Thr	Leu	Ser	His	Gly	His	Thr	Ile	Thr	His	Met	Asn	Thr
	65				70					75					80
Pro	Thr	His	Cys	His	Met	Asp	Thr	Ala	Thr	His	Thr	Ala	Thr	Leu	Ser
				85					90					95	
His	Gly	His	Thr	Ser	Ile	Pro	Ser	His	His	His	Thr	His	Cys	His	Val
			100					105					110		
Asp	Thr	Arg	Thr	His	Arg	His	Cys	His	Thr	Asp	Thr	Gln	Asn	Thr	Val
	115						120					125			
Thr	Arg	Arg	His	His	His	Ala	Asp	Thr	Pro	Pro	His	Gly	His	Ser	Thr
	130					135					140				
Arg	His	Ser	Ala	Thr	Gln	Ile	His	His	His	Thr	Glu	Met	Arg	Thr	His
	145				150					155					160
Cys	His	Thr	Asp	Thr	Thr	Thr	Ser	Leu	Pro	His	Phe	His	Val	Ser	Ala
			165					170					175		
Gly	Gly	Val	Gly	Pro	Thr	Thr	Leu	Gly	Ser	Asn	Arg	Glu	Ile	Thr	Trp
		180						185					190		
Thr	Tyr	Ser	Glu	Gly	Lys	Ile	Phe	Phe	Tyr	Phe	Leu	Gly	Asn	Gln	Ala
	195						200					205			
Arg	Leu	Cys	Leu	Lys	Lys	Arg	Lys	Lys	Lys	Gln	Tyr	Thr	Val		
	210					215					220				

<210> 480

<211> 145

<212> PRT

<213> Homo sapiens

<400> 480

130

135

140

<210> 483

<211> 144

<212> PRT

<213> Homo sapiens

<400> 483

Met Glu Thr Gln Arg Gly Asn Lys Gln Arg Ala Gln Glu Gln Gly Val

5

10

15

Cys Cys Leu Trp Gly Ser Ser Pro Cys Leu Gly Ser Tyr Gly Thr Ala

20

25

30

Gly Phe Leu Val Ala Lys Arg Arg Thr Thr Gly Leu Leu Glu Glu Asp

35

40

45

Phe Thr Phe Lys Cys Arg Lys Gln Pro Lys Leu Pro Ser Met Arg Leu

50

55

60

Ser Leu Leu Trp Pro Trp Arg Asp Leu Lys Phe Val Pro Arg Gln Asp

65

70

75

80

Lys Leu Thr Arg Ser Ser Val Ser Val Ala Gly Ala Tyr Ala Cys Arg

85

90

95

Ala Gly Pro Gly Trp Leu Lys Glu Gln Pro Ala Thr Ser Ala Arg Val

100

105

110

Arg Leu Val Gln Ala Glu His Pro Pro Pro His Pro Leu Glu Glu Val

115

120

125

Gly Met Ala Arg Phe Pro Gln Pro Glu Cys Leu Pro Pro Tyr Cys

130

135

140

<210> 484

<211> 30

<212> PRT

<213> Homo Sapien

<400> 484

Thr Ala Ala Ser Asp Asn Phe Gln Leu Ser Gln Gly Gly Gln Gly Phe

1

5

10

15

Ala Ile Pro Ile Gly Gln Ala Met Ala Ile Ala Gly Gln Ile

20

25

30

<210> 485

<211> 31

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

gggaagctta tcacctatgt gccgcctctg c

31

<211> 27

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

gcgaattctc acgctgagta tttggcc

27

<211> 36

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

ccggaattct tagctgccca tccgaacgcc ttcattc

36

<211> 33

<212> DNA

<213> Artificial Sequence

<223> Made in a lab

gggaagcttc ttccccggct gcaccagctg tgc

33

<211> 19

<212> PRT

<213> Artificial Sequence

<223> Made in a lab

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala

1

5

10

15

Ser Val Ala

<210> 490
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 490
 Tyr Leu Ala Ser Val Ala Ala Phe Pro Val Ala Ala Gly Ala Thr Cys
 1 5 10 15
 Leu Ser His Ser
 20

<210> 491
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 491
 Thr Cys Leu Ser His Ser Val Ala Val Val Thr Ala Ser Ala Ala Leu
 1 5 10 15
 Thr Gly Phe Thr
 20

<210> 492
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 492
 Ala Leu Thr Gly Phe Thr Phe Ser Ala Leu Gln Ile Leu Pro Tyr Thr
 1 5 10 15
 Leu Ala Ser Leu
 20

<210> 493
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<400> 493

<210> 494

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 494

Leu Pro Lys Tyr. Arg Gly Asp Thr Gly Gly Ala Ser Ser Glu Asp Ser
1 5 10 15
Leu Met Ile Ser
20

<210> 495

<211> 20

<212> PRT

<213> Artificial Sequence

$\langle 220 \rangle$

<223> Made in a lab

<400> 495

Asp Ser Leu Met Thr Ser Phe Leu Pro Gly Pro Lys Pro Gly Ala Pro
1 5 10 15
Phe Pro Asn Gly
20

<210> 496

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 496

Ala Pro Phe Pro Asn Gly His Val Gly Ala Gly Gly Ser Gly Leu Leu
1 5 10 15
Pro Pro Pro Pro Ala
20


```
<210> 504
<211> 19
<212> PRT
<213> Artificial Sequence
```

<220>

<223> Made in a lab

<400> 504

Gly Phe Thr Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu
 1 5 10 15
 Asn Ser Ala

<210> 505

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 505

Lys Glu Asn Ser Ala Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr
 1 5 10 15
 Asn Thr Ala Asn
 20

<210> 506

<211> 407

<212> DNA

<213> Homo Sapien

<400> 506

atggagacag	gcctgcgctg	gcttctcctg	gtcgctgcgc	tcaaaggtgt	ccagtgtcag	60
tcgctggagg	agtccggggg	tcgctgggtc	acgcctggga	cacctctgac	actcacctgc	120
accgtctctg	gattctccct	cagtagcaat	gcaatgatct	gggtccgcca	ggctccaggg	180
aaggggctgg	aatacatcgg	atacattagt	tatggtggta	gcgcatacta	cgcgagctgg	240
gtgaaaggcc	gattcaccat	ctccaaaacc	tcgaccacgg	tggatctgag	aatgaccagt	300
ctgacaaccg	aggacacggc	cacctatttc	tgtgccagaa	atagtgattt	tagtggtatg	360
ttgtggggcc	caggcacctc	ggtcaccgtc	tcctcagggc	aacctaa		407

<210> 507

<211> 422

<212> DNA

<213> Homo Sapien

<400> 507

atggagacag	gcctgcgctg	gcttctcctg	gtcgctgtgc	tcaaaggtgt	ccagtgtcag	60
tcggtggagg	agtccggggg	tcgctgggtc	acgcctggga	cacctctgac	actcacctgt	120
acagtctctg	gattctccct	cagcaactac	gacctgaact	gggtccgcca	ggctccaggg	180
aaggggctgg	aatggatcgg	gatcattaat	tatgttggta	ggacggacta	cgcgaaactgg	240
gcaaaaggcc	ggttcaccat	ctccaaaacc	tcgaccacgg	tggatctcaa	gatcgccagt	300
ccgacaaccg	aggacacggc	cacctatttc	tgtgccagag	ggtggaagtg	cgatgagtct	360

ggtcggtgct tgcgcacatctg gggcccaggc accctgggtca ccgtctcctt agggcaacct 420
aa 422

<210> 508
<211> 411
<212> DNA
<213> Homo Sapien

<400> 508
atggagacag gcctcgctgg cttctcctgg tcgctgtgct caaagggtgtc cagtgtcagt 60
cggtggagga gtccgggggt cgctgggtca cgctggggac acccctgaca ctccacctgca 120
cagtctctgg aatcgacctc agtagctact gcatgagctg ggtcgccag gctccagggg 180
aggggctgga atggatcgga atcattggta ctctgggtga cacatactac gcgagggtggg 240
cgaaaggccg attcaccatc tccaaaacct cgaccacggt gcatntgaaa atcnccagtc 300
cgacaaccga ggacacggcc acctatttct gtgccagaga tcttcgggat ggtagtagta 360
ctggttatta taaaatctgg ggcccaggca ccctgggtcac cgtctccttg g 411

<210> 509
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 509
Leu Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
1 5 10 15

<210> 510
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 510
Pro Glu Tyr Asn Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile
1 5 10 15

<210> 511
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Made in a lab

<400> 511

```
<210> 512
<211> 15
<212> PRT
<213> Artificial Sequence
```

<400> 512

```
<210> 513
<211> 15
<212> PRT
<213> Artificial Sequence
```

<400> 513

```
<210> 514
<211> 15
<212> PRT
<213> Artificial Sequence
```

<400> 514

```
<210> 515
<211> 15
<212> PRT
<213> Artificial Sequence
```

<400> 515

Met Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg
1 5 10 15

```
<220>
<223> Made in a lab
```

```
<210> 517
<211> 15
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Made in a lab

```
<210> 518
<211> 15
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Made in a lab

```
<210> 519
<211> 17
<212> PRT
<213> Artificial Sequence
```

<220>
<223> Made in a lab

<210> 520

<400> 523
Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile

1 5 10 15
 Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
 20 25 30
 Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35 40 45
 Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50 55 60
 Trp Val Leu Ser Ala Thr His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65 70 75 80
 Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
 85 90 95
 Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
 100 105 110
 Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
 115 120 125
 Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
 130 135 140
 Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
 145 150 155 160
 Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
 165 170 175
 Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
 180 185 190
 Ala Gly Gly Gly Gln Xaa Gln Xaa Asp Ser Cys Asn Gly Asp Ser Gly
 195 200 205
 Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
 210 215 220
 Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
 225 230 235 240
 Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
 245 250

<210> 524
 <211> 765
 <212> DNA
 <213> Homo sapien

<400> 524
 atggccacag caggaaatcc ctggggctgg ttctctgggt acctcatcct tgggtgtcgca 60
 ggatcgctcg tctctggtag ctgcagccaa atcataaacg gcgaggactg cagcccgcac 120
 tcgcagccct ggcaggcggc actgggtcatg gaaaacgaat tgttctgctc gggcgctcctg 180
 gtgcacccgc agtgggtgct gtcagccgca cactgtttcc agaactccta caccatcggg 240
 ctgggcctgc acagtcttga ggccgaccaa gagccaggga gccagatggt ggaggccagc 300
 ctctccgtac ggcacccaga gtacaacaga cccttgctcg ctaacgacct catgctcatc 360
 aagttggacg aatccgtgtc cgagtctgac accatccgga gcatcagcat tgcttcgcag 420
 tgccctaccg cggggaactc ttgcctcggt tctggctggg gtctgctggc gaacggcaga 480
 atgcctaccg tgctgcagtg cgtgaacgtg tccggtggtg ctgaggaggt ctgcagtaag 540
 ctctatgacc cgctgtacca ccccagcatg ttctgcgccg gcggagggca agaccagaag 600
 gactcctgca acggtgactc tggggggccc ctgatctgca acgggtactt gcagggcctt 660
 gtgtctttcg gaaaagcccc gtgtggccaa gttggcgtgc caggtgtcta caccaacctc 720
 tgcaaattca ctgagtggat agagaaaacc gtccaggcca gtttaa 765

<210> 525
 <211> 254
 <212> PRT
 <213> Homo sapien

<400> 525

```

Met Ala Thr Ala Gly Asn Pro Trp Gly Trp Phe Leu Gly Tyr Leu Ile
 1           5           10           15
Leu Gly Val Ala Gly Ser Leu Val Ser Gly Ser Cys Ser Gln Ile Ile
           20           25           30
Asn Gly Glu Asp Cys Ser Pro His Ser Gln Pro Trp Gln Ala Ala Leu
 35           40           45
Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln
 50           55           60
Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly
 65           70           75           80
Leu Gly Leu His Ser Leu Glu Ala Asp Gln Glu Pro Gly Ser Gln Met
           85           90           95
Val Glu Ala Ser Leu Ser Val Arg His Pro Glu Tyr Asn Arg Pro Leu
          100          105          110
Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu
          115          120          125
Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala
          130          135          140
Gly Asn Ser Cys Leu Val Ser Gly Trp Gly Leu Leu Ala Asn Gly Arg
          145          150          155          160
Met Pro Thr Val Leu Gln Cys Val Asn Val Ser Val Val Ser Glu Glu
          165          170          175
Val Cys Ser Lys Leu Tyr Asp Pro Leu Tyr His Pro Ser Met Phe Cys
          180          185          190
Ala Gly Gly Gly Gln Asp Gln Lys Asp Ser Cys Asn Gly Asp Ser Gly
          195          200          205
Gly Pro Leu Ile Cys Asn Gly Tyr Leu Gln Gly Leu Val Ser Phe Gly
          210          215          220
Lys Ala Pro Cys Gly Gln Val Gly Val Pro Gly Val Tyr Thr Asn Leu
          225          230          235          240
Cys Lys Phe Thr Glu Trp Ile Glu Lys Thr Val Gln Ala Ser
          245          250

```

<210> 526
 <211> 963
 <212> DNA
 <213> Homo sapiens

<400> 526

```

atgagttcct gcaacttcac acatgccacc tttgtgctta ttggtatccc aggattagag 60
aaagccatt tctgggttg cttccccctc ctttccatgt atgtagtggc aatgtttgga 120
aactgcatcg tgggtcttcac cgtaaggacg gaacgcagcc tgcacgctcc gatgtacctc 180
tttctctgca tgcttgacgc cattgacctg gccttatcca catccaccat gcctaagatc 240
cttgcccttt tctggtttga ttcccgagag attagctttg aggctgtct taccagatg 300

```


Met Phe Lys Ile Ser Cys Asp Lys Asp Leu Gln Ala Val Gly Gly Lys
305 310 315 320

<400> 530
ggcacgagaa ttaaaaccct cagcaaaaaca ggcatagaag ggacatacct taaagtaata 60

879

<210> 532

<211> 293

<212> PRT

<213> Homo sapiens

<400> 532

Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly
5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser
20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe
35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp
50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu
65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg
85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp
100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser
115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu
130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu
145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile
165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu
180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu
195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu
210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu

225 230 235 240
 Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys
 245 250 255
 Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp
 260 265 270
 Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu
 275 280 285
 Val Ile Ile Met
 290

<210> 533
 <211> 801
 <212> DNA
 <213> Homo sapiens

<400> 533
 atgtacaagc ttcaagtcaa caactgtgct acaaatggag ccacagagag gaaacaagca 60
 gcaggctcag gagcagggtta tgcgctgctt tcggctctcc aatccatgcc tcagggtctcc 120
 tatgccactg cagcattctt gggttgccaag aggccaacca caggccatct tgagaaggag 180
 tttatgttcc actgcagaaa gcagccagga tcaccatcca ggggacttgg tcttctgtgg 240
 ccctggccag acatagaatt tgtgccaagg caggacaagc tcactcagag cagcgtgtta 300
 gtacctcaaa tctgtgcgtg ccagacaagg ccaactggc tcaatgagca accagccaacc 360
 tctgcagggg tgcgtctgga ggaggtggac cagccaccaa ccttaccag tcaaggaagt 420
 ggatggccat gttccacag cctgagtggc tgccacctga tggctgatat agcaaaggcc 480
 ttaggaaaag cagatggccc ttggccctac ctttttgtta gaagaactga tgttccatgt 540
 cctgcagcga gtgaggttgg ttgctgtgcc ccagctcct ggcacaccct cgcagaggtg 600
 actggttgc ttttagcccc tcttagcctt gccagcatg cacaagcctc agtgctacta 660
 ctgtgctaca aatggagcca tataggggaa acgagcagcc atctcaggag caaggtgtat 720
 gctgcctttg ggggtccag tccttgctc aagggtctta tgtcactgtg ggcttcttgg 780
 ttgccaagag gcagaccata g 801

<210> 534
 <211> 267
 <212> PRT
 <213> Homo sapiens

<400> 534
 Met Tyr Lys Leu Gln Cys Asn Asn Cys Ala Thr Asn Gly Ala Thr Glu
 5 10 15
 Arg Lys Gln Ala Ala Gly Ser Gly Ala Gly Tyr Ala Leu Pro Ser Ala
 20 25 30
 Leu Gln Ser Met Pro Gln Gly Ser Tyr Ala Thr Ala Arg Phe Leu Val
 35 40 45

<400> 535
cctccactat tacagcttat aggaaattac aatccacttt acaggcctca aaggttcatt 60
ctggccgagc ggacaggcgt ggcggcggga gccccagcat cctgcttga ggtccaggag 120

cggagccccg gccactgcc gcctgatcag cgcgaccccc gccgcgcccc gccccgcccc 180
 gcaagatgct gcccggtac caggaggtga agcccaaccc gctgcaggac gcgaacctct 240
 gctcacgcgt gttcttctgg tggctcaatc ccttgtttaa aattggccat aaacggagat 300
 tagaggaaga tgatatgtat tcagtgtctgc cagaagaccg ctacagcac cttggagagg 360
 agttgcaagg gttctgggat aaagaagttt taagagctga gaatgacgca cagaagcctt 420
 ctttaacaag agcaatcata aagtgttact ggaaatctta tttagttttg ggaattttta 480
 cgttaattga ggaaagtgcc aaagtaatcc agcccatatt tttgggaaaa attattaatt 540
 attttgaaaa ttatgatccc atggattctg tggctttgaa cacagcgtag gcctatgcca 600
 cgggtgtgac tttttgcacg ctcatitttg ctatactgca tcacttatat ttttatcacg 660
 ttcagtgtgc tgggatgagg ttacgagtag ccatgtgcca tatgatttat cggaaggcac 720
 ttcgtcttag taacatggcc atggggaaga caaccacagg ccagatagtc aatctgctgt 780
 ccaatgatgt gaacaagttt gatcagggtga cagtgttctt acacttcctg tgggcaggac 840
 cactgcaggc gatcgagtg actgcctac tctggatgga gataggaata tcgtgccttg 900
 ctgggatggc agttctaate attctcctgc ccttgcaaaag ctgttttggg aagttgttct 960
 catcactgag gagtaaaact gcaactttca cggatgccag gatcaggacc atgaatgaag 1020
 ttataactgg tataaggata ataaaaatgt acgcctggga aaagtcattt tcaaatctta 1080
 ttaccaattt gagaagaag gagatttcca agattctgag aagttcctgc ctacggggga 1140
 tgaatttggc ttcgtttttc agtgcaagca aaatcatcgt gtttgtgacc ttcaccacct 1200
 acgtgtcct cggcagtggt atcacagcca gccgcgtgtt cgtggcagtg acgtgtatg 1260
 gggctgtgcg gctgacggtt accctcttct tccctcagc cattgagagg gtgtcagagg 1320
 caatcgtcag catccgaaga atccagacct ttttgctact tgatgagata tcacagcgca 1380
 accgtcagct gccgtcagat ggtaaaaaga tgggtgcatgt gcaggatttt actgcttttt 1440
 gggataaggc atcagagacc ccaactctac aaggccttct ctttactgtc agacctggcg 1500
 aattgttagc tgtggtcggc cccgtgggag cagggaagtc atcactgtta agtgccgtgc 1560
 tcggggaatt ggcccaagt cacgggctgg tcagcgtgca tgggaagaatt gcctatgtgt 1620
 ctacagagcc ctgggtgttc tcgggaactc tgaggagtaa tttttatatt gggaagaaat 1680
 acgaaaagga acgatatgaa aaagtcataa aggcctgtgc tctgaaaaag gatttacagc 1740
 tgttgaggga tgggtgatctg actgtgatag gagatcgggg aaccacgctg agtggagggc 1800
 agaaagcacg ggtaaacctt gcaagagcag tgtatcaaga tgctgacatc tatctcctgg 1860
 acgatcctct cagtgcagta gatgcggaag ttagcagaca cttgttcgaa ctgtgtatatt 1920
 gtcaaatatt gcattgagaag atcacaattt tagtgactca tcagttgcag tacctcaaag 1980
 ctgcaagtca gattctgata ttgaaagatg gtaaaatggt gcagaagggg acttacactg 2040
 agttcctaaa atctggtata gattttggct ccctttttaa gaaggataat gaggaaagtg 2100
 aacaacctcc agttccagga actccacac taaggaatcg taccttctca gagtcttcgg 2160
 tttggtctca acaatcttct agacctcct tgaaagatgg tgctctggag agccaagata 2220
 cagagaatgt ccagttaca ctatcagagg agaaccgttc tgaaggaaaa gttggttttc 2280
 aggcctataa gaattacttc agagctggtg ctactggat tgtcttcatt ttccttatte 2340
 tcctaaacac tgcagctcag gttgcctatg tgcttcaaga ttggtggctt tcatactggg 2400
 caaacaacaa agtatgcta aatgtcactg taaatggagg aggaaatgta accgagaagc 2460
 tagatcttaa ctggtactta ggaatttatt caggtttaac tgtagctacc gttctttttg 2520
 gcatagcaag atctctattg gtattctacg tccttgttta ctcttcacaa actttgcaca 2580
 acaaaatggt tgagtcaatt ctgaaagctc cggattattt ctttgataga aatccaatag 2640
 gaagaatttt aaatcgtttc tccaaagaca ttggacactt ggatgatttg ctgccgtga 2700
 cgttttttaga tttcatccag acattgctac aagtgggttg tgtggtctct gtggctgtgg 2760
 ccgtgattcc ttggatcgca atacccttg tccctctgg aatcattttc attttcttc 2820
 ggcgatattt tttggaaacg tcaagagatg tgaagcgctt ggaatctaca actcggagtc 2880
 cagtgttttc ccactgtca tcttctctcc aggggctctg gaccatccgg gcatacaaa 2940
 cagaagagag gtgtcaggaa ctgtttgatg cacaccagga tttacattca gaggcttggg 3000
 tcttgttttt gacaacgtcc cgctggttcg ccgtccgtct ggatgccatc tgtgccatgt 3060
 ttgtcatcat cgttgctttt gggctcctga ttctggcaaa aactctggat gccgggcagg 3120
 ttggtttggc actgtcctat gccctcacgc tcatggggat gtttcagtg tgtgttcgac 3180

aaagtgctga agttgagaat atgatgatct cagtagaaag ggtcattgaa tacacagacc 3240
 ttgaaaaaga agcaccttgg gaatatcaga aacgcccacc accagcctgg ccccatgaag 3300
 gagtgataat ctttgacaat gtgaacttca tgtacagtcc aggtgggcct ctgggtactga 3360
 agcatctgac agcactcatt aaatcacaaag aaaagggttg cattgtggga agaaccggag 3420
 ctggaaaaag ttccctcatc tcagcccttt ttagattgtc agaaccgaa ggtaaaattt 3480
 ggattgataa gatcttgaca actgaaattg gacttcacga ttttaaggaag aaaatgtcaa 3540
 tcatacctca ggaacctgtt ttgttcactg gaacaatgag gaaaaacctg gatcccttta 3600
 atgagcacac ggatgaggaa ctgtggaatg ccttacaaga ggtacaactt aaagaaacca 3660
 ttgaagatct tcctggtaaa atggatactg aattagcaga atcaggatcc aatttttagtg 3720
 ttggacaaag acaactgggtg tgcccttgcca gggcaattct caggaaaaat cagatattga 3780
 ttattgatga agcgacggca aatgtggatc caagaactga tgagttaata caaaaaaat 3840
 ccgggagaaa tttgccact gcaccgtgct aaccattgca cacagattga acaccattat 3900
 tgacagcgac aagataatgg ttttagattc aggaagactg aaagaatatg atgagccgta 3960
 tgttttctg caaaataaag agagcctatt ttacaagatg gtgcaacaac tgggcaaggc 4020
 agaagccgt gccctcactg aaacagcaaa acagggtatac ttcaaaagaa attatccaca 4080
 tattggtcac actgaccaca tggttacaaa cacttccaat ggacagccct cgaccttaac 4140
 tattttcgag acagcactgt gaatccaacc aaaatgtcaa gtccgttccg aaggcatttg 4200
 ccactagttt ttggactatg taaaccacat tgtacttttt tttactttgg caacaaatat 4260
 ttatacatc aagatgctag ttcatattga tattttctcc aacttatcca aggatctcca 4320
 gctctaacia aatggtttat ttttatttaa atgtcaatag ttgtttttta aaatccaaat 4380
 cagaggtgca ggccaccagt taaatgccgt ctatcagggt ttgtgcctta agagactaca 4440
 gagtcaaagc tcatttttaa aggagtagga cagagttgtc acagggtttt gttgtgtgtt 4500
 ttattgcccc caaaattaca tgttaatttc catttatatc agggattcta tttacttgaa 4560
 gactgtgaag ttgccatttt gtctcattgt tttctttgac ataactagga tccattattt 4620
 cccctgaagg cttcttgttt gaaaatagta cagttacaac caataggaac aacaaaaaga 4680
 aaaagtttgt gacattgtag tagggagtgt gtacccctta ctcccatca aaaaaaaaaa 4740
 tggatacatg gttaaaggat agaagggcaa tattttatca tatgttctaa aagagaagga 4800
 agagaaaaata ctactttctc aaaatggaag cctttaaagg tgctttgata ctgaaggaca 4860
 caaatgtgac cgtccatcct ccttttagagt tgcattgact ggacacggta actgttgacg 4920
 ttttagactc agcattgtga cacttcccaa gaaggccaaa cctctaaccg acattcctga 4980
 aatacgtggc attattcttt tttggatttc tcatttatgg aaggctaacc ctctgttgac 5040
 tgtaagcctt ttggtttggg ctgtattgaa atcctttcta aattgcatga ataggctctg 5100
 ctaacgtgat gagacaaact gaaaattatt gcaagcattg actataatta tgcagtacgt 5160
 tctcaggatg catccagggg ttcattttca tgagcctgtc cagggttagtt tactcctgac 5220
 cactaatagc attgtcattt gggtcttctg ttgaatgaat caacaaacca caatacttcc 5280
 tgggaccttt tgtactttat ttgaactatg agtctttaat ttttctgat gatggtggct 5340
 gtaatatgtt gagttcagtt tactaaagggt tttactatta tggtttgaag tggagtctca 5400
 tgacctctca gaataagggt tcacctccct gaaattgcat atatgtatat agacatgcac 5460
 acgtgtgcat ttgtttgtat acatatattt gtccctcgta tagcaagttt tttgctcatc 5520
 agcagagagc aacagatgtt ttattgagtg aagccttaaa aagcacacac cacacacagc 5580
 taactgcaa aatacattga ccgtagtagc tgttcaactc ctagtactta gaaatacacg 5640
 tatggttaat gttcagttca acaaaccaca cacagtaaat gtttattaat agtcatgggt 5700
 cgtatttttag gtgactgaaa ttgcaacagt gatcataatg aggtttgtta aaatgatagc 5760
 tatattcaaa atgtctatat gtttatttgg acttttgagg ttaaagacag tcatataaac 5820
 gtccgttttc tgttttaatg ttatcataga attttttaat gaaactaaat tcaattgaaa 5880
 taaatgatag ttttcatctc caaaaaaaaa aaaaaaagg gcgccgctc gagtctagag 5940
 ggcccgttta aaccgctga tcagcctcga ctgtgccttc tagttgccag ccatctgttg 6000
 tttgcccctc ccccgctcct tccttgacct tggaagggtgc cactcccact gtcccttctc 6060
 aataaaatga ggaaattgca tc 6082

<211> 6140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (4535)
 <223> n=A,T,C or G

<400> 536

```

cagtggcgca gtctcagctc actgcagcct ccacctcctg tgttcaagca gtccctcctgc 60
ctcagccacc agactagcag gtctcccccg cctcttttctt ggaaggacac ttgccattgg 120
atntagacc cacttgata atccaggatg atgtcttcac tccaacatcc tcagtttaaat 180
tccatgtgca aatacccttt tccaaataa cattcaattc tttaccagga aaggtggctc 240
aatcccttgt taaaattgg ccataaacgg agattagagg aagatgatag gtattcagtg 300
ctgccagaag accgctcaca gcaccttggg gaggagtggc aagggttctg ggataaagaa 360
gttttaagag ctgagaatga cgcacagaag ccttctttta caagagcaat cataaagtgt 420
tactggaaat cttatttagt tttgggaatt tttacgttaa ttgaggaaag tgccaaagta 480
atccagccca ttttttggg aaaaattatt aattattttg aaaattatga tcccatggat 540
tctgtggctt tgaacacagc gtacgcctat gccacggtgc tgactttttg cacgctcatt 600
ttggctatac tgcatacctt atatttttat cacgttcagt gtgctgggat gaggttacga 660
gtagccatgt gccatatgat ttatcggaag gcacttcgtc ttagtaacat ggccatgggg 720
aagacaacca caggccagat agtcaatctg ctgtccaatg atgtgaacaa gtttgatcag 780
gtgacagtgt tcttacactt cctgtgggca ggaccactgc aggcgatgc agtgactgcc 840
ctactctgga tggagatagg aatatcgtgc cttgctggga tggcagttct aatcattctc 900
ctgcccttgc aaagctgttt tgggaagtgt ttctcatcac tgaggagtaa aactgcaact 960
ttcacggatg ccaggatcag gaccatgaat gaagttataa ctggtataag gataataaaa 1020
atgtacgcct gggaaaagtc attttcaa atttattacca atttgagaaa gaaggagatt 1080
tccaagattc tgagaagtgc ctgcctcagg gggatgaatt tggcttcgtt tttcagtgca 1140
agcaaatca tctgttttgt gaccttcacc acctacgtgc tcctcggcag tgtgatcaca 1200
gccagccgct gtctcgtggc agtgacgtg tatggggctg tgcggctgac ggttacccctc 1260
ttcttccctc cagccattga gagggtgtca gaggcaatcg tcagcatccg aagaatccag 1320
acctttttgc tacttgatga gatatacag cgcaaccgtc agctgccgtc agatggtaaa 1380
aagatggtgc atgtgcagga ttttactgct ttttgggata aggcatacaga gaccccaact 1440
ctacaaggcc tttcctttac tgtcagacct ggcaattgt tagctgtggt cggccccgtg 1500
ggagcaggga agtcatcact gttaagtgc gtgctcgggg aattggcccc aagtcacggg 1560
ctggtcagcg tgcattgaag aattgcctat gtgtctcagc agccctgggt gttctcggga 1620
actctgagga gtaatatatt atttgggaag aaatacgaaa aggaacgata tgaaaaagtc 1680
ataaaggctt gtgctctgaa aaaggattta cagctgttgg aggatggtga tctgactgtg 1740
ataggagatc ggggaaccac gctgagtggg gggcagaaaag cacgggtaaa ccttgcaaga 1800
gcagtgtatc aagatgctga catctatctc ctggacgatc ctctcagtc agtagatgcg 1860
gaagttagca gacacttggt cgaactgtgt atttgtcaaa ttttgcata gaagatcaca 1920
attttagtga ctcatcagtt gcagtacctc aaagctgcaa gtcagattct gatattgaaa 1980
gatggtaaaa tgggtgcagaa ggggacttac actgagttcc taaaatctgg tatagatttt 2040
ggctcccttt taaagaagga taatgaggaa agtgaacaac ctccagttcc aggaactccc 2100
acactaagga atcgtacctc ctcatagctc tcggtttggt ctcaacaatc ttctagacct 2160
tccttgaaag atggtgctct ggagagccaa gatacagaga atgtcccagt tacactatca 2220
gaggagaacc gttctgaagg aaaagtgggt tttcaggcct ataagaatta cttcagagct 2280
ggtgctcact ggattgtctt cattttcctt attctcctaa acactgcagc tcaggttgcc 2340
tatgtgcttc aagattgggt gctttcatac tgggcaaaca aacaaagtat gctaaatgtc 2400
actgtaaatg gaggaggaaa tgtaaccgag aagctagatc ttaactggta cttaggaatt 2460

```

tattcaggtt taactgtage taccgtttctt tttggcatag caagatctct attggtattc 2520
tacgtccttg ttaactcttc acaaactttg cacaacaaaa tgtttgagtc aattctgaaa 2580
gctccggtat tattctttga tagaaatcca ataggaagaa ttttaaactg tttctccaaa 2640
gacattggac acttggtatga tttgctgccc ctgacgtttt tagatttcat ccagacattg 2700
ctacaagtgg ttggtgtggt ctctgtggct gtggccgtga ttccctggat cgcaataccc 2760
ttggttcccc ttggaatcat tttcattttt ctccggcgat attttttggg aacgtcaaga 2820
gatgtgaagc gcctggaatc tacaactcgg agtccagtgt tttccactt gtcattctct 2880
ctccaggggc tctggaccat ccgggcatac aaagcagaag agaggtgtca ggaactgttt 2940
gatgcacacc aggatttaca ttcagaggct tgggtcttgt ttttgacaac gtcccgtctg 3000
ttcgcgctcc gtctggatgc catctgtgcc atgtttgtca tcatcgttgc ctttgggtcc 3060
ctgattctgg caaaaactct ggatgccggg caggttgggt tggcactgtc ctatgccctc 3120
acgctcatgg ggatgtttca gtggtgtgtt cgacaaagtg ctgaagtga gaatatgatg 3180
atctcagtag aaagggctcat tgaatacaca gaccttgaaa aagaagcacc ttgggaatat 3240
cagaaacgcc caccaccagc ctggcccat gaaggagtga taatctttga caatgtgaac 3300
ttcatgtaca gtccaggtgg gcctctggta ctgaagcatc tgacagcact cattaaatca 3360
caagaaaagg ttggcattgt gggaagaacc ggagctggaa aaagtccct catctcagcc 3420
cttttttagat tgtcagaacc cgaaggtaaa atttggattg ataagatctt gacaactgaa 3480
attggacttc acgatttaag gaagaaaatg tcaatcatac ctccaggaacc tgttttgttc 3540
actggaacaa tgaggaaaaa cctggatccc tttaatgagc acacggatga ggaactgtgg 3600
aatgccttac aagaggtaca acttaaagaa accattgaag atcttcctgg taaaatggat 3660
actgaattag cagaatcagg atccaatttt agtgttggac aaagacaact ggtgtgcctt 3720
gccagggcaa ttctcaggaa aaatcagata ttgattattg atgaagcgac ggcaaagtgt 3780
gatccaagaa ctgatgagtt aatacaaaaa aaaatccggg agaaatttgc cactgcacc 3840
gtgctaacca ttgcacacag attgaacacc attattgaca ggcacaagat aatggtttta 3900
gattcaggaa gactgaaaga atatgatgag ccgtatgttt tgctgcaaaa taaagagagc 3960
ctattttaca agatggtgca acaactgggc aaggcagaag ccgtgcctt cactgaaaca 4020
gcaaaacaga gatgggtttt caccatgttg gccaggctgg tctcaaaactc ctgacctcaa 4080
gtgatccacc tgccttggcc tcccaaactg ctgagattac aggtgtgagc caccacgccc 4140
agcctgagta tacttcaaaa gaaattatcc acatattggt cacactgacc acatggttac 4200
aaacacttcc aatggacagc cctcgacctt aactattttc gagacagcac tgtgaatcca 4260
accaaaatgt caagtcctgt ccgaaggcat ttgccactag tttttggact atgtaaacca 4320
cattgtactt ttttttactt tggcaacaaa tatttataca tacaagatgc tagttcattt 4380
gaatatttct cccaacttat ccaaggatct ccagctctaa caaaatggtt tatttttatt 4440
taaagtcaa tagtkgkttt ttaaaatcca aatcagaggt gcaggccacc agttaaatgc 4500
cgtctatcag gttttgtgcc ttaagagact acagnagtca gaagctcatt tttaaaggag 4560
taggacagag ttgtcacagg tttttgttgg tgtttktatt gccccaaaa ttacatgtta 4620
atttccattt atatcagggg attctattta cttgaagact gtgaagtgtc cattttgtct 4680
cattgttttc tttagacatam ctaggatcca ttatttcccc tgaaggcttc ttgkagaaaa 4740
tagtacagtt acaaccaata ggaactamca aaaagaaaaa gtttgtgaca ttgtagtagg 4800
gagtgtgtac cccttactcc ccatcaaaaa aaaaaatgga tacatggtta aaggatagaa 4860
gggcaatatt ttatcatatg ttctaaaaga gaaggaagag aaaatactac tttctcaaaa 4920
tggaagccct taaaggtgct ttgatactga aggacacaaa tgtgaccgtc catcctcctt 4980
tagagttgca tgacttggac acggtaactg ttgcagtttt agactcagca ttgtgacact 5040
tcccaagaag gccaaacctc taaccgacat tctgaaata cgtggcatta ttttttttgg 5100
gattttctcat ttaggaaggc taacctctg ttgamtgtam kccttttggg ttgggctgta 5160
ttgaaatcct ttctaaattg catgaatagg ctctgctaac cgtgatgaga caaactgaaa 5220
attattgcaa gcattgacta taattatgca gtacgttctc aggatgcac caggggttca 5280
ttttcatgag cctgtccagg ttagtttact cctgaccact aatagcattg tcatgtgggc 5340
tttctgttga atgaatcaac aaaccacaat acttctctggg accttttgtt ctttatttga 5400
actatgagtc ttttaattttt cctgatgatg gtggctgtaa tatgttgagt tcagtttact 5460
aaaggtttta ctattatggt ttgaaggagg tctcatgacc tctcagaaaa ggtgcacctc 5520

cctgaaattg catatatgta tatagacatg cacacgtgtg catttgtttg tatacatata 5580
 tttgtccttc gtatagcaag ttttttgctc atcagcagag agcaacagat gttttattga 5640
 gtgaagcctt aaaaagcaca caccacacac agctaactgc caaaatacat tgaccgtagt 5700
 agctgttcaa ctctagtagt ttagaaatac acgtatgggtt aatgttcagt ccaacaaacc 5760
 acacacagta aatgtttatt aatagtcattg gttcgtattt taggtgactg aaattgcaac 5820
 agtgatcata atgaggtttg ttaaaatgat agctatatcc aaaatgtcta tatgtttatt 5880
 tggacttttg aggttaaaga cagtcataata aacgtcctgt ttctgtttta atgttatcat 5940
 agaatttttt aatgaaacta aattcaattg aaataaatga tagttttcat ctccaaaaaa 6000
 aaaaaaaaaa ggcggcccg ctcagtcctag agggcccggt ttaaaccgcg tgatcagcct 6060
 cgactgtgcc ttctagttgc cagccatctg ttgtttggcc ctcccccggt ccttccttga 6120
 ccctggaagg ggccactccc 6140

<210> 537
 <211> 1229
 <212> PRT
 <213> Homo sapiens

<400> 537
 Met Leu Pro Val Tyr Gln Glu Val Lys Pro Asn Pro Leu Gln Asp Ala
 5 10 15
 Asn Leu Cys Ser Arg Val Phe Phe Trp Trp Leu Asn Pro Leu Phe Lys
 20 25 30
 Ile Gly His Lys Arg Arg Leu Glu Glu Asp Asp Met Tyr Ser Val Leu
 35 40 45
 Pro Glu Asp Arg Ser Gln His Leu Gly Glu Glu Leu Gln Gly Phe Trp
 50 55 60
 Asp Lys Glu Val Leu Arg Ala Glu Asn Asp Ala Gln Lys Pro Ser Leu
 65 70 75 80
 Thr Arg Ala Ile Ile Lys Cys Tyr Trp Lys Ser Tyr Leu Val Leu Gly
 85 90 95
 Ile Phe Thr Leu Ile Glu Glu Ser Ala Lys Val Ile Gln Pro Ile Phe
 100 105 110
 Leu Gly Lys Ile Ile Asn Tyr Phe Glu Asn Tyr Asp Pro Met Asp Ser
 115 120 125
 Val Ala Leu Asn Thr Ala Tyr Ala Tyr Ala Thr Val Leu Thr Phe Cys
 130 135 140
 Thr Leu Ile Leu Ala Ile Leu His His Leu Tyr Phe Tyr His Val Gln
 145 150 155 160
 Cys Ala Gly Met Arg Leu Arg Val Ala Met Cys His Met Ile Tyr Arg
 165 170 175

Lys	Ala	Leu	Arg	Leu	Ser	Asn	Met	Ala	Met	Gly	Lys	Thr	Thr	Thr	Gly	180	185	190	
Gln	Ile	Val	Asn	Leu	Leu	Ser	Asn	Asp	Val	Asn	Lys	Phe	Asp	Gln	Val	195	200	205	
Thr	Val	Phe	Leu	His	Phe	Leu	Trp	Ala	Gly	Pro	Leu	Gln	Ala	Ile	Ala	210	215	220	
Val	Thr	Ala	Leu	Leu	Trp	Met	Glu	Ile	Gly	Ile	Ser	Cys	Leu	Ala	Gly	225	230	235	240
Met	Ala	Val	Leu	Ile	Ile	Leu	Leu	Pro	Leu	Gln	Ser	Cys	Phe	Gly	Lys	245	250	255	
Leu	Phe	Ser	Ser	Leu	Arg	Ser	Lys	Thr	Ala	Thr	Phe	Thr	Asp	Ala	Arg	260	265	270	
Ile	Arg	Thr	Met	Asn	Glu	Val	Ile	Thr	Gly	Ile	Arg	Ile	Ile	Lys	Met	275	280	285	
Tyr	Ala	Trp	Glu	Lys	Ser	Phe	Ser	Asn	Leu	Ile	Thr	Asn	Leu	Arg	Lys	290	295	300	
Lys	Glu	Ile	Ser	Lys	Ile	Leu	Arg	Ser	Ser	Cys	Leu	Arg	Gly	Met	Asn	305	310	315	320
Leu	Ala	Ser	Phe	Phe	Ser	Ala	Ser	Lys	Ile	Ile	Val	Phe	Val	Thr	Phe	325	330	335	
Thr	Thr	Tyr	Val	Leu	Leu	Gly	Ser	Val	Ile	Thr	Ala	Ser	Arg	Val	Phe	340	345	350	
Val	Ala	Val	Thr	Leu	Tyr	Gly	Ala	Val	Arg	Leu	Thr	Val	Thr	Leu	Phe	355	360	365	
Phe	Pro	Ser	Ala	Ile	Glu	Arg	Val	Ser	Glu	Ala	Ile	Val	Ser	Ile	Arg	370	375	380	
Arg	Ile	Gln	Thr	Phe	Leu	Leu	Leu	Asp	Glu	Ile	Ser	Gln	Arg	Asn	Arg	385	390	395	400
Gln	Leu	Pro	Ser	Asp	Gly	Lys	Lys	Met	Val	His	Val	Gln	Asp	Phe	Thr	405	410	415	
Ala	Phe	Trp	Asp	Lys	Ala	Ser	Glu	Thr	Pro	Thr	Leu	Gln	Gly	Leu	Ser	420	425	430	
Phe	Thr	Val	Arg	Pro	Gly	Glu	Leu	Leu	Ala	Val	Val	Gly	Pro	Val	Gly	435	440	445	

Phe Gln Trp Cys Val Arg Gln Ser Ala Glu Val Glu Asn Met Met Ile
 995 1000 1005
 Ser Val Glu Arg Val Ile Glu Tyr Thr Asp Leu Glu Lys Glu Ala Pro
 1010 1015 1020
 Trp Glu Tyr Gln Lys Arg Pro Pro Pro Ala Trp Pro His Glu Gly Val
 1025 1030 1035 1040
 Ile Ile Phe Asp Asn Val Asn Phe Met Tyr Ser Pro Gly Gly Pro Leu
 1045 1050 1055
 Val Leu Lys His Leu Thr Ala Leu Ile Lys Ser Gln Glu Lys Val Gly
 1060 1065 1070
 Ile Val Gly Arg Thr Gly Ala Gly Lys Ser Ser Leu Ile Ser Ala Leu
 1075 1080 1085
 Phe Arg Leu Ser Glu Pro Glu Gly Lys Ile Trp Ile Asp Lys Ile Leu
 1090 1095 1100
 Thr Thr Glu Ile Gly Leu His Asp Leu Arg Lys Lys Met Ser Ile Ile
 1105 1110 1115 1120
 Pro Gln Glu Pro Val Leu Phe Thr Gly Thr Met Arg Lys Asn Leu Asp
 1125 1130 1135
 Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp Asn Ala Leu Gln Glu
 1140 1145 1150
 Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro Gly Lys Met Asp Thr
 1155 1160 1165
 Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val Gly Gln Arg Gln Leu
 1170 1175 1180
 Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn Gln Ile Leu Ile Ile
 1185 1190 1195 1200
 Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr Asp Glu Leu Ile Gln
 1205 1210 1215
 Lys Lys Ser Gly Arg Asn Leu Pro Thr Ala Pro Cys
 1220 1225

<210> 538
 <211> 1262
 <212> PRT
 <213> Homo sapiens
 <400> 538

Leu Arg Gly Met Asn Leu Ala Ser Phe Phe Ser Ala Ser Lys Ile Ile
 275 280 285
 Val Phe Val Thr Phe Thr Thr Tyr Val Leu Leu Gly Ser Val Ile Thr
 290 295 300
 Ala Ser Arg Val Phe Val Ala Val Thr Leu Tyr Gly Ala Val Arg Leu
 305 310 315 320
 Thr Val Thr Leu Phe Phe Pro Ser Ala Ile Glu Arg Val Ser Glu Ala
 325 330 335
 Ile Val Ser Ile Arg Arg Ile Gln Thr Phe Leu Leu Leu Asp Glu Ile
 340 345 350
 Ser Gln Arg Asn Arg Gln Leu Pro Ser Asp Gly Lys Lys Met Val His
 355 360 365
 Val Gln Asp Phe Thr Ala Phe Trp Asp Lys Ala Ser Glu Thr Pro Thr
 370 375 380
 Leu Gln Gly Leu Ser Phe Thr Val Arg Pro Gly Glu Leu Leu Ala Val
 385 390 395 400
 Val Gly Pro Val Gly Ala Gly Lys Ser Ser Leu Leu Ser Ala Val Leu
 405 410 415
 Gly Glu Leu Ala Pro Ser His Gly Leu Val Ser Val His Gly Arg Ile
 420 425 430
 Ala Tyr Val Ser Gln Gln Pro Trp Val Phe Ser Gly Thr Leu Arg Ser
 435 440 445
 Asn Ile Leu Phe Gly Lys Lys Tyr Glu Lys Glu Arg Tyr Glu Lys Val
 450 455 460
 Ile Lys Ala Cys Ala Leu Lys Lys Asp Leu Gln Leu Leu Glu Asp Gly
 465 470 475 480
 Asp Leu Thr Val Ile Gly Asp Arg Gly Thr Thr Leu Ser Gly Gly Gln
 485 490 495
 Lys Ala Arg Val Asn Leu Ala Arg Ala Val Tyr Gln Asp Ala Asp Ile
 500 505 510
 Tyr Leu Leu Asp Asp Pro Leu Ser Ala Val Asp Ala Glu Val Ser Arg
 515 520 525
 His Leu Phe Glu Leu Cys Ile Cys Gln Ile Leu His Glu Lys Ile Thr
 530 535 540

Ile Leu Val Thr His Gln Leu Gln Tyr Leu Lys Ala Ala Ser Gln Ile
 545 550 555 560
 Leu Ile Leu Lys Asp Gly Lys Met Val Gln Lys Gly Thr Tyr Thr Glu
 565 570 575
 Phe Leu Lys Ser Gly Ile Asp Phe Gly Ser Leu Leu Lys Lys Asp Asn
 580 585 590
 Glu Glu Ser Glu Gln Pro Pro Val Pro Gly Thr Pro Thr Leu Arg Asn
 595 600 605
 Arg Thr Phe Ser Glu Ser Ser Val Trp Ser Gln Gln Ser Ser Arg Pro
 610 615 620
 Ser Leu Lys Asp Gly Ala Leu Glu Ser Gln Asp Thr Glu Asn Val Pro
 625 630 635 640
 Val Thr Leu Ser Glu Glu Asn Arg Ser Glu Gly Lys Val Gly Phe Gln
 645 650 655
 Ala Tyr Lys Asn Tyr Phe Arg Ala Gly Ala His Trp Ile Val Phe Ile
 660 665 670
 Phe Leu Ile Leu Leu Asn Thr Ala Ala Gln Val Ala Tyr Val Leu Gln
 675 680 685
 Asp Trp Trp Leu Ser Tyr Trp Ala Asn Lys Gln Ser Met Leu Asn Val
 690 695 700
 Thr Val Asn Gly Gly Gly Asn Val Thr Glu Lys Leu Asp Leu Asn Trp
 705 710 715 720
 Tyr Leu Gly Ile Tyr Ser Gly Leu Thr Val Ala Thr Val Leu Phe Gly
 725 730 735
 Ile Ala Arg Ser Leu Leu Val Phe Tyr Val Leu Val Asn Ser Ser Gln
 740 745 750
 Thr Leu His Asn Lys Met Phe Glu Ser Ile Leu Lys Ala Pro Val Leu
 755 760 765
 Phe Phe Asp Arg Asn Pro Ile Gly Arg Ile Leu Asn Arg Phe Ser Lys
 770 775 780
 Asp Ile Gly His Leu Asp Asp Leu Leu Pro Leu Thr Phe Leu Asp Phe
 785 790 795 800
 Ile Gln Thr Leu Leu Gln Val Val Gly Val Val Ser Val Ala Val Ala
 805 810 815

Arg Lys Asn Leu Asp Pro Phe Asn Glu His Thr Asp Glu Glu Leu Trp
1090 1095 1100

Asn Ala Leu Gln Glu Val Gln Leu Lys Glu Thr Ile Glu Asp Leu Pro
1105 1110 1115 1120

Gly Lys Met Asp Thr Glu Leu Ala Glu Ser Gly Ser Asn Phe Ser Val
1125 1130 1135

Gly Gln Arg Gln Leu Val Cys Leu Ala Arg Ala Ile Leu Arg Lys Asn
1140 1145 1150

Gln Ile Leu Ile Ile Asp Glu Ala Thr Ala Asn Val Asp Pro Arg Thr
1155 1160 1165

Asp Glu Leu Ile Gln Lys Lys Ile Arg Glu Lys Phe Ala His Cys Thr
1170 1175 1180

Val Leu Thr Ile Ala His Arg Leu Asn Thr Ile Ile Asp Ser Asp Lys
1185 1190 1195 1200

Ile Met Val Leu Asp Ser Gly Arg Leu Lys Glu Tyr Asp Glu Pro Tyr
1205 1210 1215

Val Leu Leu Gln Asn Lys Glu Ser Leu Phe Tyr Lys Met Val Gln Gln
1220 1225 1230

Leu Gly Lys Ala Glu Ala Ala Ala Leu Thr Glu Thr Ala Lys Gln Arg
1235 1240 1245

Trp Gly Phe Thr Met Leu Ala Arg Leu Val Ser Asn Ser
1250 1255 1260

<210> 539

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 539

Cys Leu Ser His Ser Val Ala Val Val Thr

1

5

10

<210> 540

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

<223> Made in a lab

<400> 540

Ala Val Val Thr Ala Ser Ala Ala Leu

1

5

<210> 541

<211> 14

<212> PRT

<213> Homo sapiens

<400> 541

Leu Ala Gly Leu Leu Cys Pro Asp Pro Arg Pro Leu Glu Leu

5

10

<210> 542

<211> 15

<212> PRT

<213> Homo sapiens

<400> 542

Thr Gln Val Val Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

5

10

15

<210> 543

<211> 12

<212> PRT

<213> Homo sapiens

<400> 543

Phe Met Gly Ser Ile Val Gln Leu Ser Gln Ser Val

5

10

<210> 544

<211> 18

<212> PRT

<213> Homo sapiens

<400> 544

Thr Tyr Val Pro Pro Leu Leu Leu Glu Val Gly Val Glu Glu Lys Phe

5

10

15

Met Thr

<210> 545

<211> 18

<213> Homo sapiens

Met Asp Arg Leu Val Gln Arg Phe Gly Thr Arg Ala Val Tyr Leu Ala
5 10 15

<210> 546

<211> 29

<212> PRT

<213> Homo sapiens

<400> 546

Phe Val Gly Glu Gly Leu Tyr Gln Gly Val Pro Arg Ala Glu Pro Gly

Thr Glu Ala Arg Arg His Tyr Asp Glu Gly Val Arg Met
20 25

<210> 547

<211> 58

<212> PRT

<213> Homo sapiens

<400> 547

Val Ala Glu Glu Ala Ala Leu Gly Pro Thr Glu Pro Ala Glu Gly Leu
5 10 15

Ser Ala Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu
20 25 30

Ala Phe Arg Asn Leu Gly Ala Leu Leu Pro Arg Leu His Gln Leu Cys
35 40 45

Cys Arg Met Pro Arg Thr Leu Arg Arg Leu
50 55

<210> 548

<211> 18

<212> PRT

<213> Homo sapiens

<400> 548

Ile Asp Trp Asp Thr Ser Ala Leu Ala Pro Tyr Leu Gly Thr Gln Glu
5 10 15

Glu Cys

<210> 549
 <211> 18
 <212> PRT
 <213> Homo sapiens

<400> 549
 Leu Glu Ala Leu Leu Ser Asp Leu Phe Arg Asp Pro Asp His Cys Arg
 5 10 15

Gln Ala

<210> 550
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 550
 Ser Asp His Trp Arg Gly Arg Tyr Gly Arg Arg Arg Pro Phe
 5 10

<210> 551
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Made in a lab

<400> 551
 Phe Asp Lys Ser Asp Leu Ala Lys Tyr Ser Ala

<210> 552
 <211> 2577
 <212> DNA
 <213> Homo sapiens

<400> 552
 agcatatgta acatgacctg tgcttcagtg ttcttttgtg atcaaaaatt cottactttt 60
 agtttttttat ctatggtaga accaccaga gcaggggtcc tcaactcca ggccacagac 120
 tcataaccagt ccacggacta ttatgaacca caccacacag gaggaggtga gcactaggca 180
 agccaaggaa gcttcacctg tacttacagc cacacgccat ggctcatatt acagcctgaa 240
 ctctgcctcc actcagatca gtgataacat tagaaactca ttggagcacg aacctgttg 300

tgaactgcct atccgaagga tctaggttgt gtgcttcgta tgagaatcta atgccagatg 360
 atctatcatt gtctcacttt gccccagat aagaccatct agttgcagaa aaataagctc 420
 agagcttcca ctgattctac attatggata tgtgccgcgc aagcaagcac aaagccctac 480
 ttttacacat gcttagtgat gcttcatgga caaggcttgg ctctgttgag tccaactaac 540
 ctacctgaga ttctgagatt tctcttcaat ggcttcctgt gagctagagt ttgaaaatat 600
 cttaaaatct tgagctagag atggaagtag cttggacgat tttcattatc atgtaaatcg 660
 ggtcactcaa ggggccaaacc acagctggga gccactgctc aggggaaggt tcatatggga 720
 ctttctactg cccaaggttc tatacaggat ataaagggtgc ctccacagtat agatctggta 780
 gcaaagaaga agaaacaaac actgatctct ttctgccacc cctctgaccc tttggaactc 840
 ctctgaccct ttagaacaag cctacctaat atctgctaga gaaaagacca acaacggcct 900
 caaaggatct cttaccatga aggtctcagc taattcttgg ctaagatgtg gggtccacat 960
 taggttctga atatgggggg aagggtcaat ttgctcattt tgtgtgtgga taaagtcagg 1020
 atgccaggg gccagagcag ggggctgctg ctttgggaac aatggctgag catataacca 1080
 taggtatggg aacaaaaaac atcaaagtca ctgtatcaat tgccatgaag actcgaggga 1140
 cctgaatcta ccgattcatc ttaaggcagc aggaccagtt tgagtggcaa caatgcagca 1200
 gcagaatcaa tggaaacaac agaattgatt caatgtcctt tttttctcc tcttctgac 1260
 ttgataaaag ggaacctctt ccttggtatt agtgaacccc tttggttctt gaaaaattca 1320
 aggagtatct aggacatagt cccagaaga cagtacaaga ctttctgata aactggacat 1380
 ttcaagrcce aaataactaa tcagaaaaat caaagatgtg atactatctt ttatcccatg 1440
 cataggtgct acacttggat caaatgaaca atgttgggat ctytatggat aaaggtctta 1500
 aaagtctga gataaagaat cctgcaccca ctggacttcc taacttgtct tgtttttgt 1560
 ctgwtttctg gctgatgcag gggactaact cactgccacg cgaaaactac ctgaactgaa 1620
 ctatgacatc tcacctgata tgtaagatgt aactgttata attatcttaa acctcaattt 1680
 agcattaact agccttttaa tgtaaacact tacacattat gaygactaga aacagcatac 1740
 tctctggcgc tctgtocaga tagatcttga gaagatacat caatgttttg ctcaagtaga 1800
 aggtgacta tacttgccga tccacaacat acagcaagta tgagagcagt tctaaaatga 1860
 cagagatagg aacagtaata aagttattkt aaaagcta attgatatact ttaccaattt 1920
 aacatcttgc ctgtccgtgc agaatacaac atttacctgc actaaaagac ataagcatct 1980
 tcagtgtcca agtgttcatc tttgtaaaat accaccaagg ttaaaaggaa gggacaaaaa 2040
 aaaaaaaccc tcttatctca gtgggtatt gcatagcaga agctactaat ttgaagtcc 2100
 ttgatggaca agaaacaata ttagggccac ttatctgaaa tgaacaaaga ttaagtga 2160
 gatttcatca cagcttccct agactgatat gctgtaatat aaaatcagct agggggtaaa 2220
 ataaataaga gctctctgca tgctgaaagc aagtaagatt aataataatg gtaagaatag 2280
 tagtcacagg agtttcagtt aatgatgcca ataagcatgt gctaggcact gaattaaatg 2340
 ccacatatat ctttcttatg cgcagcaaac tttgaaggat atattctcct acttttcata 2400
 tatgacaaca tatttggtgg taaataacgt tccaagggtc acacacctag caagtaagaa 2460
 agtttagaat taaaccagat attgtgtgaa tctaaagcct aacttttttc tctttatcac 2520
 ccacctacgg cttgtcttca ttaaaggaaa agtgtatcca cttaaaaaaa aaaaaa 2577

<210> 553

<211> 58

<212> PRT

<213> Homo sapiens

<400> 553

Ser Ile Cys Asn Met Thr Cys Ala Ser Val Phe Phe Cys Asp Gln Lys

5

10

15

Phe Leu Thr Phe Ser Phe Leu Ser Met Val Glu Pro Pro Arg Ala Gly

20

25

30


```
<210> 556
<211> 81
<212> PRT
```

<400> 556

Ile

<210> 557

<211> 54

<212> PRT

<213> Homo sapiens

<400> 557

Gly Phe His Ile Arg Phe
50

<210> 558

<211> 77

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1) ... (77)

<223> Xaa = Any amino acid



Asn Asp Arg Asp Arg Asn Ser Asn Lys Val Ile Xaa Lys Ala Asn Leu
5 10 15

Ile Tyr Phe Thr Asn Leu Thr Ser Cys Leu Ser Val Gln Asn Gln Thr
 20 25 30

Phe Thr Cys Thr Lys Arg His Lys His Leu Gln Cys Ser Ser Val His
35 40 45

Leu Cys Lys Ile Pro Pro Arg Leu Lys Gly Arg Asp Lys Lys Lys Lys
50 55 60

Pro Ser Tyr Leu Ser Gly Val Leu His Ser Arg Ser Tyr
65 70 75

<210> 559

<211> 50

<212> PRT

<213> Homo sapiens

<400> 559

Thr Leu Pro Pro Leu Arg Ser Val Ile Thr Leu Glu Thr His Trp Ser
5 10 15

Thr Asn Pro Val Val Asn Cys Leu Ser Glu Gly Ser Arg Leu Cys Ala
20 25 30

Ser Tyr Glu Asn Leu Met Pro Asp Asp Leu Ser Leu Ser His Phe Ala
35 40 45

Pro Arg
50

<210> 560

<211> 56

<212> PRT

<213> Homo sapiens

<400> 560

Ile Gly Ser Leu Lys Gly Pro Thr Thr Ala Gly Ser His Cys Ser Gly
5 10 15

Glu Gly Ser Tyr Gly Thr Phe Tyr Cys Pro Arg Phe Tyr Thr Gly Tyr
20 25 30

Lys Gly Ala Ser Gln Tyr Arg Ser Gly Ser Lys Glu Glu Glu Thr Asn
35 40 45

[illegible]

Thr Asp Leu Phe Leu Pro Pro Leu
50 55

```
<210> 561
<211> 57
<212> PRT
<213> Homo sapiens
```

```
<220>
<221> VARIANT
<222> (1)...(57)
<223> Xaa = Any amino acid
```

```
<400> 561
Val Leu His Leu Asp Gln Met Asn Asn Val Gly Ile Xaa Met Asp Lys
          5                      10                      15
```

Gly Leu Lys Ser Pro Glu Ile Lys Asn Pro Ala Pro Thr Gly Thr Ser
20 25 30

Asn Leu Ser Cys Phe Leu Ser Xaa Phe Trp Leu Met Gln Gly Thr Asn
35 40 45

Ser Leu Pro Arg Glu Asn Tyr Leu Asn
50 55

```
<210> 562
<211> 59
<212> PRT
<213> Homo sapiens
```

```
<220>  
<221> VARIANT  
<222> (1)...(59)  
<223> Xaa = Any amino acid
```

<400> 562
Asp Leu Tyr Pro Xaa Arg Ser Gln His Cys Ser Phe Asp Pro Ser Val
 5 10 15

Ala Pro Met His Gly Ile Lys Asn Ser Ile Thr Ser Leu Ile Phe Leu
20 25 30

Ile Ser Tyr Leu Xaa Leu Glu Met Ser Ser Leu Ser Glu Ser Leu Val
35 40 45

Leu Ser Ser Gly Asp Tyr Val Leu Asp Thr Pro
50 55

<400> 563

Asp Pro Leu Arg Pro Leu Leu Val Phe Ser Leu Ala Asp Ile Arg
65 70 75

<400> 564

His Met Asn Leu Pro Leu Ser Ser Gly Ser Gln Leu Trp Leu Ala Pro
50 55 60

<220>

<223> Xaa = Any amino acid

Leu Tyr Tyr Cys Ser Tyr Leu Cys His Phe Arg Thr Ala Leu Ile Leu
5 10 15

Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Leu Leu Leu Glu Gln
20 25 30

Asn Ile Asp Val Ser Ser Gln Asp Leu Ser Gly Gln Thr Ala Arg Glu
35 40 45

Tyr Ala Val Ser Ser Xaa His Asn Val
50 55

<211> 55

<213> Homo sapiens

Ile Leu Leu Glu Phe Phe Arg Asn Gln Arg Gly Ser Leu Asn Pro Arg
5 10 15

Lys Thr Val Pro Phe Ile Lys Ser Glu Gly Gly Glu Lys Lys Gly His
20 25 30

Cys Asn His Ser Val Val Ser Ile Asp Ser Ala Ala Ala Leu Leu Pro
35 40 45

Leu Lys Leu Val Leu Leu Pro
50 55

<211> 51

<212> PRT

<213> Homo sapiens

Tyr Ser Asp Phe Asp Val Phe Cys Ser His Thr Tyr Gly Tyr Met Leu
5 10 15

Ser His Cys Ser Gln Ser Ser Ser Pro Leu Leu Trp Pro Leu Gly Ile
20 25 30

Leu Thr Leu Ser Thr His Lys Met Ser Lys Leu Thr Leu Pro Pro Ile
35 40 45

Phe Arg Thr
50

```

<400> 568
Lys Val Gly Glu Tyr Ile Leu Gln Ser Leu Leu Arg Ile Arg Lys Ile
      5              10              15
Tyr Val Ala Phe Asn Ser Val Pro Ser Thr Cys Leu Leu Ala Ser Leu
      20              25              30
Thr Glu Thr Pro Val Thr Thr Ile Leu Thr Ile Ile Ile Asn Leu Thr
      35              40              45
Cys Phe Gln His Ala Glu Ser Ser Tyr Leu Phe Tyr Pro Leu Ala Asp
      50              55              60
Phe Leu Leu Gln His Ile Ser Leu Gly Lys Leu
      65              70              75

```

<400>	569						
gcatccagag	tgggtggactg	gttacaggct	atgaacctac	actgatgcgg	caccaccacc	60	
cagagtccac	rggttatgtt	ggttcacatt	tactcttget	gtggtatggg	ctatagggttt	120	
ggacagatgt	ccgataatcc	tttttacatt	ttggcatcct	tgggtagctc	gtcttgtagg	180	
aatggacttg	cttcaaagtg	gaggcaggca	gatccttcag	acgggtatat	ggagccctgt	240	
tttcagttgc	ttttctaatt	ctctcttata	gtttacctca	aaatcttctt	gaggtctcgc	300	
ttctttttaa	aatcttgtc	tactttgcag	catcactctg	acactcccat	tgattctctca	360	
gcacctactg	actacacggg	taggagtgc	agggtagaat	tcatgtttta	ttcatctttg	420	
ggtctgtagc	accagcaaaa	gtgctcagta	aatgcgcagt	aattgatttg	acctctgaac	480	
aaatacacac	tgtactaaga	atctacacac	cgaagacaa	aaacaagaca	aatttgagtg	540	
ctacaggtgt	cacgcttggc	atcacacatg	tgcctgtgta	ttctcttagg	tggttaccag	600	
gagctctgcc	actgcatgtc	cactagtgc	gggttcgctc	caccacccca	gctgggtagc	660	
cgctgctctc	acataagggg	tccaattaaa	attgccagga	ataaattccc	ccggactttg	720	
acttctcaag	agctaagaag	gtttgctgag	tattctggca	tgatgttttg	tgatcaaaca	780	
actgctggcc	aaaaatgatg	agtatttccc	cctcttgetg	aagatgtgct	ccatacaata	840	
gtccatcaca	ttcatcattc	atcagtctgg	aagtgtgcag	aacaacatgt	aatagataat	900	
atgattggct	gcacacttcc	agactgatga	atgatgaatg	tgatggacta	ttgtatggag	960	
cacatcttca	gcaagagggg	gaaataactca	tcattttata	tattacatgt	tgttctgggt	1020	
tttttttttt	tccaatgtcc	agcctaaact	ataaagtact	ttgagaacgc	acagtgaacc	1080	
ataagcttgc	caataaagag	tcctctgtgg	tatggaactg	gcttatttca	tacacaatct	1140	
qcaaaacaatg	aggggcactat	tggaaacata	ctgtgctgca	cagagcattt	acaccgctta	1200	

tctttaatct tccccagcaa tcccttgcttt gtgcgcattt atgatccttg ctctcagaag 1260
 tccacatact tttccccaac cgtaacaaat tatttaactc atctaagtga tgtatgtccg 1320
 cgcagtctga aaacagtaat tgtccttggg aagaagtga ttttaagagag ctctaggggca 1380
 ctcatcacia ctccagccct gccctccatg tggtagcagc tctttggact ggggctaagt 1440
 gcttattctt gtgcttcatt cctggtaagc tcaatttctt taccttagga taactttgct 1500
 ggaaaagggc tcagattcag ccgaccattg tggcctctgt ggctgtcaca gcttgtccct 1560
 gacatgctat gatgttgggt ccccttctca tcccttggg atttcttctg ctggcccaca 1620
 gccagaacia ctaggccttt tactccacca tcccttgggt ttcttttgggt tcgttggtaa 1680
 aaatcaatcc ttctaccatc catgcatagc aatttctaaa aactgaattt caagagcagt 1740
 atctgaagaa acaaacatga tttggctcctt ttagtaaaaa gaataaattt taataaatca 1800
 actttgaaat agttgtaaga gttaagaaaa agcacaaaa tgagatcatc agagcagctt 1860
 ggctcaaag gacaggcagc aggattctac agggtttgag ccttcctaag tgaagctgtt 1920
 tctgcaggc tccctgctcc aagctcctag ctaacagccc cttctccccc gattggcaac 1980
 aaagagcaaa aataactttg tacttgatgc tgagtcagtg taaaaagcca taaaaaattc 2040
 cctctaaatg tcaaaatggt tgctccttt gaggtctctc tccctcctact ggggtctggat 2100
 aaattagcac tgggcttata ttgagtcaca gatctggggc ctgccacaga gagcttcctc 2160
 ctagtgtgtg atgctttttc tccaaactat tgatacaaaa tgcaactggaa tagaaatcaa 2220
 cagaaactgg tcaaggtgt ggcatacaca ttctcatgta gatgtaaagc tgtgcttaga 2280
 attcctttgt ggagtctgggt ttggctctgg tttcttgggt gtttgattca tttttttacg 2340
 taaattacaa aaacctcca cattcttcca tggattgtat tagtccatgt tctccagaga 2400
 agcagaacga gttggatgta tgttttggaa gagattatga ggaaccggct catgtgatga 2460
 aggaggttga gaggtcctgt gctctgccat ctgcaagctg aagacctgga aagctgaggg 2520
 tgtggctcca gtctgagctt gaaggcccaa gaaccagggg aaccaacggg gtagattcca 2580
 ggttgaaggc aggagaagat ggatgtccca gctcagcagg caggcaggaa gcaaatgggg 2640
 taaattcctc ctctcctccac cttttgttcc attcaggcct tcaacagatt ggatgagcgc 2700
 cccccaccc ccacactagg gagggccatc tgctttactg agtcggctga gtcaagtgcc 2760
 agcctcatcc caaaacactc tccagacaca cgcagaaatg tttcatctgg gcacctgtg 2820
 gccagtcatg ctgacacaca gaactaacca tgacatggat tcttcttaaa gcagtgatag 2880
 gagcgaacag aaacattttc ataattttca attattttta atgaaaacta tatctgatgg 2940
 aattgtttaa acctagtctg gccacacatt atttctggg accgcccctc cttcaatccc 3000
 ttggacactg atgactttat gccagatta cactggaggc ctgtgctgat tttctaacac 3060
 atacctgcaa ctgagctggc aaaaagaaaa ctaggcaagt atgacagata catgatgcac 3120
 aggctaagtg caaaggaaag aaaaacacca actgcaggga tgagggaactc acccctttag 3180
 aagtttctac ttgagcagct agaagactac aatgccactc atcaaaacag tgactcaggg 3240
 ggagtatttg ggataaagga ggaatctgat gttggaggtc aaatttgaag tgtctttaag 3300
 acctacaggt aacgagacag ctggacaaac acatggaact caggacaaag gctctaagga 3360
 cagcacagca gctgacatcc tgtgtgacag ccttgaaagc agcaggcccg ccgctcacat 3420
 tttggaaggg aaaatgggta caatgttgtc tgccactttg gggccttctt gggtcacatg 3480
 cattttacat ttatgcagtt gatatattta tgtttctgg gtcttttata cattagacac 3540
 catgattctc aatcctttgt tattttgtat taaaaaagc tgaattatta tttcaaatat 3600
 gggcaaatta gaccttcca tattgccaag gtgtatcaac cacactgata ycaygatctc 3660
 tcttttgaat tagttttcca gttcacacct accatttatt tcatgattgg tttcagaact 3720
 gttcctctg gaaacactcc ctaacaagca ccttgcagg aatgaagaca caccacacac 3780
 atctacccca ttactgcatg tactcaagag tcagctttta tatgatctct cccaagtgt 3840
 cctataatgg ggatctttca ctacacctaa agtgaggaca aaataactga aagcatgagc 3900
 ccagtgcctg taggtgtgca attaacctca gaccaaggaa gtgccgaacg catctggctt 3960
 ttagcaaggc acctgacaaa gtccctcagg atgtttttgt acatgagcta gagaaatgta 4020
 cctggagaac agcttctact gccagatgat ctactcaaaa agatgcagat taagcaaaat 4080
 atcaacccaa aggggtgtcc ctgatggccc accagcccct gtgcctggct cgtttctctat 4140
 gtttctctaga tttggtttca gaactgtctc tctgcagac actccctaac cagcatcctt 4200
 gcagaaaact ggtgaactag aaaaggcctg tgtgggtcac gtggccaccc aacaccacag 4260


```
<210> 570
<211> 951
<212> DNA
<213> Homo sapiens
```

```
<210> 571
<211> 819
<212> DNA
<213> Homo sapiens
```

<400> 571							
cagcttaaaa	atggtttctt	gaaatcagtg	atttagcattc	actcaccagt	acccctacta		60
aggggtaggc	actggtttgt	actcctggga	atacaggagt	acaccagaat	ttattttctgc		120
ttattgcttt	tgttgcaa	gccgtggctt	catctgagga	attctagaat	tcagaggggtg		180
tagccctcca	ctctgctgtc	ttgctatctg	ctctcattgc	atccgtttaa	cctgcattct		240
gaaagatggt	tctcaggttt	ttccttgacg	atctttcttct	tttctgattc	tgacaatggt		300
ttaa	atcattgtactgtgg	tatcatttct	ctgcatttat	tttaccatc	ttcctttgta		360
acttgctcta	ttgtctttta	atctctgect	gttctttatg	gctttcaact	tcataaataa		420
catgttttct	caa	atctctt	tgtgaattcc	agagagggcc	aggcacgggtg	gctcacatct	480
gtaatcccag	cactttgggg	aggctgagac	gggtggatca	cttgagggtca	ggagtttgag		540
accagcctgg	ccaacatgg	gaaatcccg	ttcactaaaa	atacaaaaat	taccaggca		600
tgggtggcggg	cgctgta	at	ccaggtact	cgggaggtg	agggaggaga	atcgcttgaa	660

```
<210> 572
<211> 203
<212> DNA
<213> Homo sapiens
```

```
<210> 573
<211> 132
<212> PRT
<213> Homo sapiens
```

```
<210> 574
<211> 63
```

<400> 574

Thr Arg Val Trp Pro Cys Cys Pro Gly Trp Ser Ala Val Ala
50 55 60

<211> 77

<212> PRT

<213> Homo sapiens

<400> 575

Gly Arg Gly Cys Ser Glu Pro Arg Ser Cys Cys Cys Thr Pro Ala Trp
50 55 60

Ser Thr Glu Gln Asp Ser Ala Ser Lys Thr Asn Lys
65 70 75

<210> 576

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> unsure

$\langle 222 \rangle$ (42)

<223> Xaa = Any Amino Acid

<400> 576

Met Leu Gly Lys Ser Arg Ala Val Cys Leu Pro Ser Thr Thr Val Thr

15

Gln Pro His
50

<210> 579
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 579
 Met His Phe Thr Phe Met Gln Leu Ile Tyr Leu Cys Phe Leu Gly Leu
 5 10 15
 Leu Tyr Ile Arg His His Asp Ser Gln Ser Phe Val Ile Leu Tyr Tyr
 20 25 30
 Lys Lys Leu Asn Tyr Tyr Phe Lys Tyr Gly Gln Ile Arg Ala Phe His
 35 40 45
 Ile Ala Lys Val Tyr Gln Pro His
 50 55

<210> 580
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 580
 Met Glu Leu Arg Thr Lys Ala Leu Arg Thr Ala Gln Gln Leu Thr Ser
 5 10 15
 Cys Val Thr Ala Leu Lys Ala Ala Gly Pro Pro Leu Thr Phe Trp Lys
 20 25 30
 Gly Lys Trp Val Gln Cys Cys Leu Pro Leu Trp Gly Leu Leu Gly Ser
 35 40 45
 His Ala Phe Tyr Ile Tyr Ala Val Asp Ile Phe Met Phe Pro Gly Ser
 50 55 60
 Phe Ile His
 65

<210> 581
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 581
 Met Leu Glu Val Lys Phe Glu Val Ser Leu Arg Pro Thr Gly Asn Glu
 5 10 15

Met Met Phe Gly Asp Gln Thr Thr Ala Gly Gln Lys
50 55 60

Gln Met Ser Asp Asn Pro Phe Tyr Ile Leu Ala Ser Leu Gly Ser Ser
20 25 30

Ser Cys Arg Asn Gly Leu Ala Ser Lys Trp Arg Gln Ala Asp Pro Ser
35 40 45

Asp Gly Tyr Met Glu Pro Cys Phe Gln Leu Leu Phe
50 55 60

<210> 587
<211> 1408
<212> DNA
<213> Homo sapiens

<400> 587
ctggacactt tgcgagggct tttgctggct gctgctgctg ccggtcatgc tactcatcgt 60
agcccgcccg gtgaagctcg ctgctttccc tacctcetta agtgactgcc aaacgcccac 120
cggctggaat tgctctgggt atgatgacag agaaaatgat ctcttcctct gtgacaccaa 180
cacctgtaaa tttgatgggg aatgtttaag aattggagac actgtgactt gcgtctgtca 240
gttcaagtgc aacaatgact atgtgcctgt gtgtggctcc aatggggaga gctaccagaa 300
tgagtgttac ctgcgacagg ctgcatgcaa acagcagagt gagatacttg tgggtgtcaga 360
aggatcatgt gccacagatg caggatcagg atctggagat ggagtccatg aaggctctgg 420
agaaactagt caaaaggaga catccacctg tgatatttgc cagtttggtg cagaatgtga 480
cgaagatgcc gaggatgtct ggtgtgtgtg taatattgac tgtttctcaa ccaacttcaa 540
tccccctctgc gcttctgatg gyaatatctta tgataatgca tgccaaatca aagaagcatc 600
gtgtcagaaa caggagaaaa ttgaagtcac gtctttgggt cgatgtcaag ataacacaac 660
tacaactact aagtctgaag atgggcatta tgcaagaaca gattatgcag agaatgctaa 720
caaattagaa gaaagtgcc aagaacacca cataccttgt ccggaacatt acaatggctt 780
ctgcatgcat gggaagtgtg agcattctat caatatgcag gagccatctt gcagggtgtga 840
tgctggttat actggacaac actgtgaaaa aaaggactac agtgttctat acgttgttcc 900
cggctctgta cgatttcagt atgtcttaac cgcagctgtg attggaacaa ttcagattgc 960
tgtcatctgt gtgggtggtcc tctgcatcac aaggaaatgc ccagaagca acagaattca 1020
cagacagaag caaaatacag ggcactacag ttcagacaat acaacaagag cgtccacgag 1080
gttaatctaa agggagcatg tttcacagtg gctggactac cgagagcttg gactacacaa 1140
tacagtatta tagacaaaag aataagacaa gagatctaca catgttgctt tgcatttgtg 1200
gtaatctaca ccaatgaaaa catgtactac agctatattt gattatgtat ggatatattt 1260
gaaatagtat acattgtctt gatgtttttt ctgtaatgta aataaactat ttatatcaca 1320
caatawagtt ttttctttcc catgtatttg ttatatataa taaatactca gtgatgagaa 1380
aaaaaaaaa aaaaaaaaaa rwmgaccc 1408

<210> 588
<211> 81
<212> PRT
<213> Homo sapiens

<400> 588
Met Pro Gln Lys Gln Gln Asn Ser Gln Thr Glu Ala Lys Tyr Arg Ala
5 10 15

Leu Gln Phe Arg Gln Tyr Asn Lys Ser Val His Glu Val Asn Leu Lys

002790-054500


```
<210> 589
<211> 157
<212> PRT
<213> Homo sapiens

<400> 589
Met Thr Met Cys Leu Cys Val Ala Pro Met Gly Arg Ala Thr Arg Met
      5                      10                      15
Ser Val Thr Cys Asp Arg Leu His Ala Asn Ser Arg Val Arg Tyr Leu
      20                      25                      30
Trp Cys Gln Lys Asp His Val Pro Gln Met Gln Asp Gln Asp Leu Glu
      35                      40                      45
Met Glu Ser Met Lys Ala Leu Glu Lys Leu Val Lys Arg Arg His Pro
      50                      55                      60
Pro Val Ile Phe Ala Ser Leu Val Gln Asn Val Thr Lys Met Pro Arg
      65                      70                      75                      80
Met Ser Gly Val Cys Val Ile Leu Thr Val Leu Lys Pro Thr Ser Ile
      85                      90                      95
Pro Ser Ala Leu Leu Met Gly Asn Leu Met Ile Met His Ala Lys Ser
      100                     105                     110
Lys Lys His Arg Val Arg Asn Arg Arg Lys Leu Lys Ser Cys Leu Trp
      115                     120                     125
Val Asp Val Lys Ile Thr Gln Leu Gln Leu Leu Ser Leu Lys Met Gly
      130                     135                     140
Ile Met Gln Glu Gln Ile Met Gln Arg Met Leu Thr Asn
145                     150                     155
```


cgattaagcg	ncaaagtgt	agcaaaange	cgtgccactt	gtggcgtagc	tncgtegggt	180
cgattcgacg	acaaggcgtn	gcgcgntanc	gttagtctcn	aatngaccen	gtggcatgag	240
cccacgangg	nttcgtgtcg	tcacatggnc	tctagacata	acgcncncen	ttttttncag	300
agggggntgc	cgcccttagg	gaggcnagggg	tggggacact	agccaancca	nantctnacc	360
ccattgaaga	aaagggn					376

<210> 595
 <211> 242
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (242)
 <223> n = A,T,C or G

<400> 595	
agnctgctgn	tcgtnccctn
tatgtggctt	catmntgagg
acaanagtng	cactgaggct
	60
tgngnatgcc	aggcaaggnc
aagctggctc	aaaaagcatc
caccacacctc	tgnaangggg
	120
atgccangag	cangtgcacc
agtcccaact	angagncccn
ggcatgntac	atctttcttc
	180
accctnaaaa	ntttgngcta
caangnccat	ttttcttttt
ctcttaaggg	ncncttggt
	240
tc	242

<210> 596
 <211> 535
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (535)
 <223> n = A,T,C or G

<400> 596	
accagttgga	tactgctaaa
nagatattta	tgcagcctca
tatgttaagt	cgtatatattt
	60
gaaagctttt	taaatttttt
ctttaagaag	atttttagatg
cttatcactg	agtaccagag
	120
ggatgtaggc	tgatgccctt
atcaacaaag	tcagggactg
tggcacacaa	ggattgacta
	180
ctgcagacac	ggccacaatg
ctacctctag	agggcctgaa
tccccctgcc	ctctctgggtg
	240
gggagaaggg	ctggcagagc
cattagcatg	ggctccggcc
aatcctggcc	actttgacac
	300
tcctggtgct	gacccagggg
cctggaggaa	gggatgaggt
gggcagtaga	gatgctcagg
	360
gcagtggccc	ctttccatcc
acaactggaac	tatttcagta
ttttaccacc	aattcagcca
	420
ttcccttggtg	cgtctggtga
acatcagccc	tgtctcaggt
ctcagtttcc	cctttgtaaa
	480
gggaaagctc	tggattcagg
gagtgatgaa	gaggtcatca
tggctcttgag	aattc
	535

<210> 597
 <211> 257
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature

aatcaagatc	tttaggccag	aaatcatgaa	nanttttana	attattttan	gaatctgtgg	720
cttctcttct	taaaatngaa	aaaaaaattg	tttaaaccce	naaggtctga	atacccaagc	780
nccctgaacn	anagaacaan	gccggagcac	cccccccaa	atcccc		826

<210> 603

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (817)

<223> n = A,T,C or G

<400> 603

nnangacttt	tgtggtntta	tacaattntt	ttttctattt	ctatgaagag	aaagccacag	60
agtccataaa	taattctaaa	actcatcatg	actttcttgc	ctaaaagatc	ttgatttcaa	120
tcgtgcctag	ttttgcttta	atcacttgct	tgagaaatac	ataaatcccc	acttaagatt	180
agtgcaggca	tatctctggc	acccatttct	ggttctatta	aaattccctag	agatgtcaaa	240
aattacatta	ggccacctga	caggctatac	ctagaagaga	aaaaatgatt	tgtaaaagca	300
gtggggctat	ttgcgattgc	tttttttttt	tcttaaatat	cacctattag	gttgaaaacc	360
tgaaattgca	gctttctgta	gaaatggcgg	aagacaaact	aacattttta	aagcgtcttc	420
atthagctct	gatgagtact	acacccctga	tattcttctg	atactaaaat	aattttccta	480
gtgtagtcta	aactttttta	aaaagacatg	taatccgcgg	agtttgtaac	tcaaaacgag	540
tgcacttagg	aggtatcgca	agcgcgttct	ggattaaatt	cccagctagc	ttgcttgctt	600
agcaggggcg	ggnaaanaag	acatctgcag	cctagggaag	aaaacctttc	gcattgttct	660
tacgtgttta	cgttatttta	tttccctana	caaggcngaa	ttgggactcg	aatggttcag	720
ttggggtggg	ggatccccctg	gtncataaaa	ngtcanaaag	anggtacagg	cggaacncca	780
agggctcgtc	tgcatttana	ctcggaattt	tggtgcc			817

<210> 604

<211> 694

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (694)

<223> n = A,T,C or G

<400> 604

cttttcaa	at	ctttttt	nct	cttctagg	ta	tanccctgt	ca	ggcggccct	aa	tgtaattttt	60
gacatctcta		ngaatttt	taa	tagaaccaga		aatgggtgcc		agagatatgc		ctgcaactaat	120
cttaagtggg		gatttatg	ta	tttctcaagc		aagtgattaa		agcaaaaacta		ggcagcagttg	180
aatcaagat		cttttagg	ca	anaaagtc	at	gatgagtttt		agaattattt		taggactctg	240
tggttttctc		ttcatagaaa		tagaaaaaaa		aattgtataa		aaccacaaaa		ggtcctgaat	300
agccaaagca		acactganca		aaaagaacan		agcagggaag		caacacacta		ccngaattca	360
aattatacta		ccagggtgta		gtaacacaaa		cagcattcta		ttggcataaa		atagacacca	420
agaccaatgg		ancagaataa		agaaccccc		aaataaatcc		atatatntac		cgccanctga	480
ttatcaataa		cnaacaccaa		gaacatatnt		taagggaent		nctatttcaat		aantagtgtc	540
ggnaaaaact		gggaaatcca		tatgcagaaa		naatgaaact		agacccttat		ccctcaccat	600

<400> 607
ccatgtgggt cccggttgtc tt 22

<210> 608
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 608
gataggggtg ctcaggggtt gg 22

<210> 609
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 609
gctggacagg gggcaaaagc tggggcagtg aaccatgtgc 40

<210> 610
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 610
ccttgtccag atagcccagt agctgac 27

<210> 611
<211> 46
<212> DNA
<213> Artificial Sequence

<220>
<223> Primer

<400> 611
gatagagaaa accgtccagg ccagtattgt gggaggctgg gagtgc 46

<210> 612
<211> 40
<212> DNA

195 200 205
 Gly Val Pro Gly Val Tyr Thr Asn Leu Cys Lys Phe Thr Glu Trp Ile
 210 215 220
 Glu Lys Thr Val Gln Ala Ser Ile Val Gly Gly Trp Glu Cys Glu Lys
 225 230 235 240
 His Ser Gln Pro Trp Gln Val Leu Val Ala Ser Arg Gly Arg Ala Val
 245 250 255
 Cys Gly Gly Val Leu Val His Pro Gln Trp Val Leu Thr Ala Ala His
 260 265 270
 Cys Ile Arg Asn Lys Ser Val Ile Leu Leu Gly Arg His Ser Leu Phe
 275 280 285
 His Pro Glu Asp Thr Gly Gln Val Phe Gln Val Ser His Ser Phe Pro
 290 295 300
 His Pro Leu Tyr Asp Met Ser Leu Leu Lys Asn Arg Phe Leu Arg Pro
 305 310 315 320
 Gly Asp Asp Ser Ser His Asp Leu Met Leu Leu Arg Leu Ser Glu Pro
 325 330 335
 Ala Glu Leu Thr Asp Ala Val Lys Val Met Asp Leu Pro Thr Gln Glu
 340 345 350
 Pro Ala Leu Gly Thr Thr Cys Tyr Ala Ser Gly Trp Gly Ser Ile Glu
 355 360 365
 Pro Glu Glu Phe Leu Thr Pro Lys Lys Leu Gln Cys Val Asp Leu His
 370 375 380
 Val Ile Ser Asn Asp Val Cys Ala Gln Val His Pro Gln Lys Val Thr
 385 390 395 400
 Lys Phe Met Leu Cys Ala Gly Arg Trp Thr Gly Gly Lys Ser Trp Gly
 405 410 415
 Ser Glu Pro Cys Ala Leu Pro Glu Arg Pro Ser Leu Tyr Thr Lys Val
 420 425 430
 Val His Tyr Arg Lys Trp Ile Lys Asp Thr Ile Val Ala Asn Pro Glu
 435 440 445
 Phe

<210> 618
 <211> 385
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1) ... (385)
 <223> n = A,T,C or G

<400> 618
 ctgtgctgag aaccaaagc tatgancact gcttttccaa atgtccataa naccaacatt 60
 tttatcacta ccaccatcac ctgggagctc nttagaaagc tagtctcccg ggcaccaccc 120
 tggcctactg aacctaattgt gcattttaaca agattnacgt ngaaatctgc aaagcacagg 180
 ggcngataac agtaccacct gntctgggtc ctanccccan gaccettaca gtctaactgg 240
 gacacaaggg cttnaaatca aattgcctat cattaagata tacaanganc ntgagaaact 300
 gctncactta tntattaagg ngctctaaga cttagaaacn aaangcantg ctgagangat 360

<213> Homo sapien

<400> 626

gcaacaatca	gatcatgtta	aagtaaattct	ccattgccct	ggatcacttc	aggatttaat	60
tgtccaagga	gagcagggtt	ctcctgtgaa	aaaaagggtg	ggaaatgttt	gagagtaaaa	120
aatacaaaaat	tcaaccggtc	gaaaatacac	cactccattc	agtgtctctac	ccccataagc	180
c						181

<210> 627

<211> 813

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (813)

<223> n = A,T,C or G

<400> 627

accaagctgg	agctcgcgcg	cctgcaggtc	gacactagtg	gatccaaagt	gaacgtgaag	60
gtgagcagag	gagaacttgc	gatggcaaag	ttaaaaacaa	gaggagatga	tggtcttggt	120
gtggcacagg	atgttaaaaa	aattctcctg	tccttaagga	gttactgcta	tttgagtaat	180
gtgccacttc	cctacatagc	cttctatgca	gaaatgctat	atttccactt	cacaaccag	240
aacgtgcatt	ttatttttaca	tttagaggag	gaacaaacaa	ccagaaggca	aaaactggtg	300
cattattttt	tgcaattctc	ttggaaagag	ttcgttttta	acttctgctc	agacagcaca	360
caactactgg	gaatatattt	taattttcaa	tctgatgtgt	gacatctggt	aactcattta	420
ttgctaata	agttttcaca	ggaagcagca	gtcaccagta	gctcatctta	tttttcagtt	480
ggcaaagtgt	tgtttacctt	ttattggcct	gcacgggtgt	ctcttatcac	aggatattta	540
attagaaaac	gcaagtagcc	taacatagaa	nagaaatgga	gtggtagata	atagtagata	600
gaatggctaa	atatttttat	tacagtgatg	taatatcact	gnaatttatg	gttaaaaatt	660
atgtaatact	caaaagggaat	tctcagactg	gcgaaacagc	tggncaacag	ctntcacagg	720
gcttttnact	cctnttgagc	tttccccctg	ntggacttta	gtcttccttt	tacncccgna	780
gtnnccattn	nttaccaatt	gtncggggaa	ana			813

<210> 628

<211> 646

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (646)

<223> n = A,T,C or G

<400> 628

tttggngngn	ggtgtctcnt	ttgggtggac	tttttgggtc	gtagggcccc	aaggccgtta	60
atcccgtaat	aacggaagac	gaagaagagt	cagaagagtg	cttctataag	gatcgggacg	120
agactacctt	agaggaataa	aggaaaaaag	cagaggagga	agagtggtag	aaggagtcag	180
aagaaaccca	cacgtcgttc	tgaacctgga	gccttatcaa	aaaggtctag	ataaacgata	240
gcgatctcga	tatcgagctc	aagaggtagg	tttagagact	tctcgtcctc	gagagcgaaa	300
tggaagatct	cgacgacgat	aagaagttaa	agtgtagagg	gtgcttgagg	agcgcgtgga	360

<400>	630						
cnntcggcgt	ggggttttntt	ctgagnnncc	ccccccccc	cccccccaa	cttacacca		60
cctaactctt	tccgccccc	acctaggaga	cattagaagg	gtttaggctt	cggcgtatag		120
taaagtcttc	tacctcggaa	gtagagaatt	cggtatTTta	attcaggggt	agaggctcgc		180
tcgttagatt	tatagtttag	gtttagaatc	ggaaaccttc	gatcttctt	agaagggtaa		240
taagtgaagg	cctaaatccg	tctaaccaag	gcgttaaagg	ccgtacctaa	acctagtctt		300
atcttctatc	aggcgcacca	atataggtag	gttctacttt	cgtataggcc	ttaaggaata		360
gttcggtagt	tatcgaaggc	actcctctct	aggctaggct	tttctcagtc	ttagtactcc		420
gggaccgtcg	tcgcanaaat	atcgatggac	ggtaggtatc	tccgcgttac	gcgtcgggct		480
agggatatag	agcgaattat	cggcgagagg	cggtcgctan	gaatcgggat	caatatgntg		540
ttctttacc	tacggatatc	ggcagaaaac	ataaacctt	ctnaccangg	ataagggatt		600
atcggacccc	taaaataaca	gtaacattta	gantactagt	acc			644

<220>

<221> misc_feature

<222> (1) ... (630)

<223> n = A,T,C or G

<400> 633

```
tccttcgggt tgggtttttt tctgaccccc cccccccccc cccctcgga aggcctctag    60
gctcccaccc gtctctctaa tcctcaggaa ccgatccacc caaccaactt actaatgtcc    120
tacagtaaac acccgagaat ataaaccac acctaggcct ccaatcctac cagggaagca    180
agaagccgta gtctagcgta ttacgaaccc gagatagaga cggagatact tagttttatt    240
ctctcggaat aggaaagacg actggggagg gaatatagga tagcgcgggg ataggggcta    300
tggcggtatg gggggcggtt cgctctctta ttctttctata ccacgtcaat aggaatgtag    360
atatacctag atgttcccgt agaaagagac gttagaggtc tccgaagcta taaaggagag    420
gcgcggaagaa acttcgtact ctagctttat ataggtagtc gctctagtcc cataagcgac    480
gagagatcta ctagatttcg gtatcgccgt cgtatgtatt cgaaatagtc ttcttccctt    540
tttcgatctc ctctctatac tacatggnga ttatagtcnt aagatagtca ggatattagg    600
atattagtta tatgacgttc gacgggacgg                                630
```

<210> 634

<211> 647

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (647)

<223> n = A,T,C or G

<400> 634

```
ccttcgggtt ggggtttttt ctgaccccc cccccccccc cctccactaa gancttaacc    60
caaccctata gtttactcgt ataggggaat cgaggagaaa taggaacgaa gagcggtgga    120
taaagagaaa gtactttcct ttatatgtta agagcttagc gtaatgactt tcgttatatg    180
gctagttagt tttatcgggc gttatagggc ttagttctgg ttatctcggy totaattccc    240
ttagtatgct cgggagttta acgaggtcac gggatagcgc gtaccctttc taaggttott    300
ggaaagctat tcgttattta tcgcgattct cgaggtcgaa aggatcaagg atottccott    360
ttactaccct agtcgggtta gcggtcggtc aaaactagtg tagtaccttt acctcctoga    420
aagttatagt cgaaacaacg tattagtoga aattatagcg gatagatoga gacggttott    480
tctcgggttc tcagccggta atccctctat ttgggggtct tctccctctt cccctttgtc    540
ttccgcctta gcttccaagg ttccctcgga gcgaggggtt ctacttaagt cgntagcggt    600
ccttataaac cncctacagg cagacccctt tgtaaacggc tcgggggt                                647
```

<210> 635

<211> 645

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (645)

<223> n = A,T,C or G

<400> 635

000150-000000

```
<210> 636
<211> 643
<212> DNA
<213> Homo sapien
```

<400> 636							
ccttcggcgtt	gggtttttttt	ctgaccccc	ccccccccccc	cctagcggaa	aacaatcccc		60
accgagattt	tattaatcgt	aaaactcgcc	ttcggtacca	agtcttcctc	cttcccgtaa		120
cctggctccc	tcctagnngc	tttacgaacg	tccctcctct	tcttacggct	cggaagtgggt		180
tacggttaaa	tccggaggng	gggctaacga	atccaaggct	aactcctctt	anagtttggt		240
gtccnncngt	ttagtaaggga	tccgtggagg	gcgagtattt	gnccccgggc	ctttattnta		300
tagttcccta	gtacgataaa	gntaccggct	atcctattac	agcggataaa	agttatttan		360
agggccgacg	tcnccgctag	acaggctaca	gctagnggag	gtaccgcctc	cgactantcc		420
gttgnttccg	acaaggngat	ttcggttaac	tccacaaact	cctccgccga	ctctanggtg		480
gggacggcag	ttccnncggt	tagtgtgcgt	tatagagaag	ggcatttgag	ttggacgtta		540
cnttttaaca	taggttatct	cgtttaggtt	cttgcgggcc	cgtgggggta	gtncnccggc		600
cqcttnntat	cggcgtatttt	cgcgaqtttc	cqtttccqgn	tnt			643

```
<210> 637
<211> 631
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1)...(631)
<223> n = A,T,C or G
```

<400> 637						
gggttntctc	atttgggtgg	acttttttggg	tcgtaggaac	cggtatgnag	gagtaggagt	60
cgctgggaag	actagaagtt	agctacggac	gattagtgtg	attccactct	taataacgag	120
taatcgttta	cgtcgggttg	gtgtttcggg	gttttgga	gtaagcgtag	ttgtggagtt	180
tcgcatatag	gtccccttac	ttcggcgatc	tcgtcttctg	tcggttaggt	tattattgtt	240
catccttcgc	attagtagta	gggttggtcg	gataaatcga	tagctattct	ttagaattcg	300

tagtcggaga	attcgtgtac	gaagtccttt	aagttcttta	agttcgcgag	taagacgtgt	360
acggttatatt	tgctcgtcgac	gtaggtgtcg	tttacgggag	tttcgtttta	ggggtttacg	420
tagaacgtta	ttaagcacgg	taatacgata	gaggattacg	cgacgtattc	gtcttagaac	480
gtcgattttt	cgaaggcgca	tttgttatcg	aaggggagtc	cttggagaat	cgagatattc	540
caagaatatt	acggagatta	cagatcggaa	ggctcccgag	atcggacgta	ttaccggtct	600
cgcccgaaac	gagtaggtat	cntccggata	a			631

<210> 638

<211> 606

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(606)

<223> n = A,T,C or G

<400> 638

ccccccccc	ctcaaccatc	nattccccac	ctcaacgcga	attacggttt	cgaaagtcga	60
caataagtcc	ggtcgagtag	agggaaatcag	gggctggtan	aaaggaccac	gggcggaaaa	120
taccggtctc	cttcggggga	gcgacgtcgg	ggaaagggaa	gagagcggtc	tagttcgtag	180
gcaaacaggt	cagaaaagtt	aaggttaaag	gtcggagggg	agaggatagc	tagtacgctt	240
agttcggggc	tcgggcgcag	ggccactttc	ctcttttcgcg	ttcctttact	ctgcttacga	300
gttcaggctc	cggagttccg	cgccggaggt	cgtcgcgacg	ctaggaatgg	ggactcgctc	360
agtcgccggt	tatccttcgg	gattctatgt	tttcgcgcgat	agacggagac	cgggtagtag	420
ggttccgctg	taccgccact	cgtcgccttg	atccggcccc	ctccgcttaa	gggcgatgaa	480
agattaggta	ttagggctct	acgggacgag	gcatagggcg	ggagaagggg	ggaggggctg	540
ggggtcgaag	ggantaagaa	atcgcantcg	cgcggggctg	gtagganccg	aaatttttct	600
cnnctg						606

<210> 639

<211> 592

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(592)

<223> n = A,T,C or G

<400> 639

tccttcggct	tgggtttttt	tctgagcccc	ccccccccc	cccccgggaa	cgagaaaaca	60
atcccaccct	accgcgggga	gtgggttgna	cgcttagttc	tagaatcctc	ggaatcgtcc	120
tccggcgctt	gtagttccgg	cgattccgag	tatgcogaag	tgtatcgctc	cgtctagagg	180
ttggtatctg	tttatcgcca	tgacgtatt	gactcggatg	ctttcgaagt	agggggatag	240
gcgcatagat	acgcctccgc	ggtgtcctct	gaagtggccg	catccgtgga	cgcagcgtag	300
acagctctgg	tggacgataa	cggcttctcg	tactcctact	ccggctatta	tgtagagag	360
gacttgtttc	tgaacggata	taccattagc	gaaggggtac	cctccgctaa	cgcaggcggt	420
tctaacagtt	cttcggggcg	ctccgaattt	agattgacgc	ctccgcagca	ttgtgggac	480
ctcttcogtt	agccctcttt	ataggatttc	tcctccgccc	cgaaagangg	ctggtcgtcc	540
cgggcangta	tgtctagctc	gaacgccttg	ttactccttt	gttttcgaaa	na	592

```
<220>  
<221> misc_feature  
<222> (1)...(637)  
<223> n = A,T,C or G
```

```
<210> 641
<211> 649
<212> DNA
<213> Homo sapien
```

<400>	641						
ctntgtggcg	gtggttgtct	cagtttgggt	ggatttttgg	gtcgtaggna	acctgggtatg		60
aggtctagtt	tcttcaacga	ttcttgggtc	agttacgcga	ccctatcctt	atcttacaat		120
gtcttctaca	tcaggttcat	caattaatat	atcaattaca	cattaacgac	ggtgtgacgc		180
aatatgagaa	agtatacatt	aagggtatta	tatattattc	gcttaaaaaag	gttcctgaca		240
tgggacaact	tcaccaccca	ttctagaagc	ccccctcct	gtaggacccc	ctcgagttcc		300
ccattatctt	agttcagttt	tcatttttta	accaggagggy	tatcggtttt	taatagggtac		360
tattttgtca	aacttttcag	aagctttatc	ttcaaataata	cttgcaaccat	ctgtactagg		420
agcactaaact	attcgagttc	attacagctc	aacagaaaaat	aattgaaaatt	aaacaacctta		480
agtatcgtcc	accataaccc	catcgggctc	tcaccccat	tcttcataag	ttctagagca		540
tcctgagctc	tttctatta	cccttgatgg	tactcatggg	ctaatacccc	ccgcagttat		600
aggtccttat	ggatcctatg	ctaccaccgg	tctaatacct	tctatcacn			649

```
<210> 642
<211> 645
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc_feature  
<222> (1) ... (646)  
<223> n = A,T,C or G
```


cggcactaat	tcctttcaag	tactcgctcg	gcttgtagtt	cggggtaaag	tcgctctca	300
aagggccaac	gaggttttaa	agcgaccccc	gtatcgagtc	ttcttcgtat	tcattaaggc	360
gttaaaggta	cgagacctag	aagagagtag	aattagccca	ccaaatcgcc	taaaccggca	420
aaaacgacca	aaagtcaaag	acccttacia	atatcacctt	aaaacgccaa	ccccaaaaac	480
gcgatcagta	acgcacgtac	ctttccacag	cttttctttc	tttcaactctc	caaaacaaaac	540
ccgaatattt	agcgcaaaaa	atatccgagg	gagaattaga	agctattacc	cgaaaaaaa	600
ncgganangg	antaaatngt	ggggaatana	cgtttggttt	ttctg		645

<210> 647

<211> 753

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (753)

<223> n = A,T,C or G

<400> 647

accttacctg	gtaccggggc	ccccctcgag	tttttttttt	tccaaataca	actcagattg	60
tatacgaaaa	gctgataata	cattgacttt	tgctgtttta	atcccttgag	cctttgataa	120
tgattttttt	tgtgttaaca	attgtagtat	ataaaatcgg	attcaccatc	cttctgatgc	180
catattgatt	agtttgattt	tatggtgatg	ggatcattgt	gtgttaactg	tattaagaag	240
aaatggattt	gattgacttt	gcatccattt	ttatctgtgt	tactttcatg	ttttatttaa	300
aagcatttct	ggaccagaat	aagttaagtg	gtataatttg	ctttttacac	gtttatataa	360
ttgaagttag	caatgtggca	aaatctctaa	tggaaataaa	atgcttcaga	atgatgacat	420
aaatctgagc	tatttcttgc	ctggagaaca	agtgttattc	ataataattt	aatagcttct	480
gaggtgtttt	gttcatgtga	tgaaggctta	tccaccttgt	atcaattcat	gggctctgct	540
ttgttttaag	tagtcagggt	gttaatacna	gacttaagag	tcactctact	gtgataagtg	600
gtgagtgaag	attacatgtc	ttangaaaat	taactctgga	atatctctga	cattaatggg	660
tttaaatgtt	ttaaggctag	gggatgatgc	aatgganaan	atncttccaa	angtttctgg	720
ttgtttatat	ttngngaagn	catnaagana	ccg			753

<210> 648

<211> 383

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (383)

<223> n = A,T,C or G

<400> 648

gatatcccgg	ggaaatgcgg	aggcctttng	gcttacgtgt	ttaccgcgta	gggcaaagcc	60
ttgncaaat	cccggccagc	ggagcggcga	gggtggggac	tcacgggaag	ttaaacagcc	120
tcgtcggcgt	cctcgaggct	ccaaaaccag	gctctaggcg	gggacgactg	cagccgttat	180
ggaggccacc	gcggctacgg	ccgcggctga	ggcctcccca	ggtggagcgg	tggcctggag	240
gggaatcttg	atcctgggcc	agccacctgt	caagaggagg	cggagcgtca	tgctcttgga	300
agactggatg	aatattctcc	aggagcctga	cgaaggcgaa	gaagtctttg	cagaggaaat	360
tgaatgctgt	ctgatgctac	aat				383

ccattcatgg	aggcctgggn	antttctgtga	ntgacntnga	cnetanaenc	tnccactgtn	180
tgctatccag	acttgnttng	aatatnttat	tggcnaaana	canttnegga	atgctgtgnt	240
tgnn cattga	angatctgat	cactatgaga	gggtgaggac	nncctgctng	ctggcantnt	300
ntaaccn						308

<210> 657

<211> 696

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(696)

<223> n = A,T,C or G

<400> 657

accntttcca	caatnctggn	ctccccgcgg	tggcgggcgc	gtcgaccagc	aacctcagct	60
gtgggtcttg	ttacagtaat	gagttactgt	aaggaaagtg	tgacatttcg	agcaatttga	120
tttgtttaaa	aactagagca	gtttcagggt	tttccttgta	aatctgtctt	atgtgtcttc	180
aatgttcttt	cttgaggagt	agagaaagga	attgttagga	atgatgcata	aacctatggc	240
tattttatct	cgctgccacc	cataatcaga	gcagattctt	gggactatga	ccctcatgga	300
gacatgacaa	ttgtgtgtgt	ggtgggtggg	agaaaagagc	tgggaatttt	taggggtctag	360
agggtccaat	caggactatt	ttatggagct	ctgctcacca	actttaagtg	agcaccaggg	420
gtgngaaagc	gaatcttggg	ntcaaaaana	caatggnaag	gggtaagtgt	gtatnctgaa	480
ctggccactt	cggactctta	tttaactggg	tattctcant	taaggaggcn	nggggtggtc	540
tggcttgtna	aggaaagcct	gtgcaatgga	atgactttta	aaccccccat	taaaaaaaaa	600
angntataaa	tcttgggtct	taanaangaa	gcctgggttc	tnttanccca	ttttnccccc	660
gggaaggnaa	atnttcttag	gnaanggaag	ggaagg			696

<210> 658

<211> 698

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1)...(698)

<223> n = A,T,C or G

<400> 658

ctggactccc	cgcggtggcg	gocgetctag	aactagtgga	tccgtgttgg	ctcaattctc	60
aaggctgttg	ctgtgcggcc	tgttccccac	acgtgctgct	cagctcaggc	aagcaccgag	120
cttgtgttgt	ttcatgetca	gcgtggagge	ccctcctcca	ggtegetgct	ctgtgggggt	180
cccatacact	caggctccta	ggaggagtec	atntagaaag	ccagggtttt	tctcagagtc	240
ttagtctctt	gtgctgtcat	ccatttcaca	cgacttgggc	cctgctcggg	gcaacacagc	300
aagagaaaaag	acagggaaaa	taagagaggg	accttgacac	cacacgctct	ggaccacaga	360
gccctgtgcc	cagctcctct	gtcaatacag	gtggaatctc	gtgcaggatc	gcaggggtct	420
gtgatgccac	caaagagcag	gccgggacag	ggttaggaga	gaaaggagag	ggaagtgggg	480
gtttctccta	cgcactctta	tttgagagg	gaaaggcggg	tttgtattgg	ggttgctggg	540
ctttgcaccc	acngcacagt	tgtgagacac	ccccatcctn	agatcaaage	cccacataca	600
gcttggggaa	aaacaaaacn	aaacaaaaca	aaaacagtaa	acctccatgc	canttggttg	660

aggaaaatct ggcntcttat tttgggatnt cngcnggggg aangaggata taattnaccc 840
cggccttgg 849

<210> 661
<211> 653
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(653)
<223> n = A,T,C or G

<400> 661
aacttaagct tgggtaccgag ctccggatccc tagtccagtg tgggtggaatt cgcgggcgcg 60
tcgacctcca ttcgtttctt gtccctttttt ttcattttttt ctcatgttct attcacttta 120
ggttttctaag ataaatatta taaaataatt tttacttata aattattcac tgataccctg 180
tctttaacat gtgaaatgaa ttcaaaaagga atcttaatga gaaataatat actcatgatg 240
tttaatagat ttgatttcga aataataagc cctctgaagt cctaagttaa aaataaagca 300
acttgtttga taatttttca tcaagaatgt atctgagtct ctgagtaatt attagtagga 360
atattccatt atcacaatta cacagtataa gctatttagt ctaactttac caaaaaaggg 420
agctacttca acactgtgtg agacttttaa tgggtttgca ttgggtatgc actattagca 480
agataaccta ttttacagca gtgtttntta acctttccca tttatttgaa aggagctaa 540
gatatagtag ttaatntaan gggctgatgc atttatatta catgtagana atgggagata 600
cnaaaggag nggggggana tnttttgnat tcnaagctt cnttgncaat taa 653

<210> 662
<211> 646
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

<400> 662
aaacttaagc ttggtacccg agctcggatc cctagtcacg tgtggtggaa ttcgcggcgcg 60
cgctcgacca gggacaggca gccagnctg gggtcaccag ggtccctct tgggcccctcc 120
aanagcaaca gtactggcaa cagctgggat ttgctgagca cagactctgc agcaggctcg 180
gttgagctct ctgtgcctgt tccttcatac cctcctcacg cccatccatg agatgggtcc 240
agctgttttc agatgagaaa atggcacagg aagctggtaa gtgacagtca gaaatgaatg 300
ctggcagctt antccttgga cccaccgcag tgcaggacct tgcacaacag ggatcacccct 360
tgtccgccac ctgttcatga ggccaccacg ggtttgtgtg gtcatttgtc tccttttcate 420
tgcttgccct caaccagctg ggtcattagg gctggggaac ccagacccca cacagtcctt 480
ctccagang ccagacacan nctnccccac agnaaggact tcagtcctcg aancaaatgt 540
ncctgggcgt anaaactgna gggnccccaa tccctggtgg ggtactgctt tgcaactggng 600
gaattcaccc ctcattnna acctttccct nttncaccc ctaaac 646

<210> 663
<211> 650

<220>

<400> 665

<210> 666

<211> 705

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (705)$

<223> n = A, T, C or G

<400> 666

<210> 667

<211> 817

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

 $\langle 222 \rangle \quad (1) \dots (817)$

<223> n = A, T, C or G

<400> 667
 nnangacttt tgtggtnnta tacaattntt ttttctattt ctatgaagag aaagccacag 60
 agtcctaaaa taattctaaa actcatcatg actttcttgc ctaaaagatc ttgatttcaa 120
 tcgtgcctag ttttgcttta atcacttgct tgagaaatac ataaatcccc acttaagatt 180
 agtgcaggca tatctctggc acccatttct ggttctatta aaattcctag agatgtcaaa 240
 aattacatta ggccacctga caggctatac ctagaagaga aaaaatgatt tgtaaaagca 300
 gtggggctat ttgcgattgc tttttttttt tcttaaatat cacctattag gttgaaaacc 360
 tgaaattgca gctttctgta gaaatggcgg aagacaaact aacattttta aagcgtcttc 420
 atttagctct gatgagtact acaccctga tattcttctg atactaaaat aattttccta 480
 gtgtagtcta aactttttta aaaagacatg taatccgagg agtttgtaac tcaaaaagag 540
 tgcacttagg aggtatcgca agccgtttct ggattaaatt ccagctagc ttgcttgctt 600
 agcaggggag ggnaaanaag acatctgcag cctagggaag aaaacctttc gcattgttct 660
 tacgtgttta cgttatttta tttcctanaa caaggcngaa ttgggactcg aatgggtcag 720
 ttgggggggg ggatccctg gtncataaaa ngtcanaaag anggtacagg cggaacncca 780
 agggctcgtc tgcatttana ctcggaattt tgggtgcc 817

<210> 668
 <211> 826
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (826)
 <223> n = A,T,C or G

<400> 668
 cgggggggnt tacgtctctc tggacgcttt tattgtacca gggcgatccc agcccaactg 60
 taccattcga gtccctactc ctgccttgct ctagggaat aaaataacgt aaacacgtaa 120
 gaacaatgcg aaagcgTTTT cttccctagg ctgcagattg tcttcttcac cgcctctgct 180
 tagctagcta gctagctggg aatttaaatc agaaacggct tgcgatacct cctagatgca 240
 ctggttttga gttacaaact ccgcggtatta catgtctttt taaaaaagtt tagactacac 300
 tagggaaaat tatttttagta tcagaagaat atcagggggt gtagtactca tcagagctna 360
 atgagagcgc tttaaaaatg ttagtttgct ttccgccatt tctacagaaa gctgcaattt 420
 caggttttca ncctaatagg tgatatntaa gaaaaaaaaa acaatcgcan atagccact 480
 gctttttaca atcatttttc tcttctaggt atagcctgct aggtggccta atgtattttt 540
 gacatctcta ggaattttta tagaccagaa atgggtgccg gagatatgcc tgcactaatc 600
 ttaagtgggg atttatgtat ttctcaanca agtgattaaa gcaaaactag gcacgaatga 660
 aatcaagatc tttaggccag aaatcatgaa nanttttana attattttan gaatctgtgg 720
 cttctcttct taaaatngaa aaaaaaattg tttaaacca naaggtctga ataccaagc 780
 nccctgaacn anagaacaan gccggagcac cccctcccaa atcccc 826

<210> 669
 <211> 547
 <212> DNA
 <213> Homo sapien

<220>
 <221> misc_feature
 <222> (1)... (547)

<223> n = A,T,C or G

<400> 669

cattgtgttg	gggaaaaaat	gatttgtata	agcagtgggg	ctatttgcca	ttgctttttt	60
tttttcttaa	atatcaccta	ttaggttgaa	aacctgaaat	tgcagctttc	tgtagaaatg	120
gcggaagaca	aactaacatt	tttaaagcgc	tctcatttag	ctctgatgag	tactacaccc	180
ctnatattct	tctgatacta	aaataatttt	cctagtgtag	tctaaacttt	tttaaaaaga	240
catgtaatcc	gcggaagttag	taactcaaaa	cgagtgcata	tnggaagtat	cgcagccgtt	300
nctggatnaa	attcccagct	tgctngcttg	ctnagccggg	gggcggtnaa	aaaaacatct	360
gcagcccngg	ggnaaaaacc	ttcgatttgt	tcttacgtgt	ttacgttatt	ttatttccct	420
nnagcaaggc	nggganttgg	ggactcgaaa	tggtacagtt	gggctgggga	tcgcccttgt	480
tacataaaag	ncgtccagaa	gagggacggt	tacaggcngg	ganctccaaa	ggtcagtccc	540
tgccatt						547

<210> 670

<211> 232

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (232)

<223> n = A,T,C or G

<400> 670

cgaactat	ttt agactaccta	ggaaaattat	tttagtatca	gaagaatatc	aggggtgtag	60
tactcatcag	agctaaatga	gagcgcttta	aaaatgttag	tttgtcttcc	gccattttcta	120
cagaaagctg	caatttcagg	ttttcaacct	aataggtgat	atttaanaaa	aaaaaaaaagc	180
aatcgcaa	at agcccccactg	cttttacaaa	tcattttttc	cccaacacaa	tg	232

<210> 671

<211> 214

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (214)

<223> n = A,T,C or G

<400> 671

ctcccccttc	ntccttcgct	actnencatt	ttcnnaaatt	tnnttcgent	atgnngaaaa	60
acaccacat	tnntcanctc	gcacagaaca	ngnnggggtg	tgtaaaatga	agggttccn	120
cncctttctc	tattnaanaa	cactnaaana	gggangggct	aaaacccgcg	ngatntctac	180
nctatcgcg	ggcgttttgg	ngttggctag	aaga			214

<210> 672

<211> 328

<212> DNA

<213> Homo sapien

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (439)

<223> n = A,T,C or G

<400> 675

nnactagtc	agtggtggtg	aattccattg	tgttgggctt	gtatggggtt	ttttgtctag	60
ttntttggga	aatgttngtg	ttactatntt	ttggatatna	tatatgatat	gtatggccct	120
tctatgggct	cctcanacng	aactcaacca	ttttccacaa	aaccnattcc	tcctttccct	180
tcatgactga	gtggtgttgg	tactatccng	gaaactggga	cattgtcctt	cacatctntc	240
ccttanctgc	ctngtccnat	tgatgtcttt	gagctntgan	atgtctttgt	taactntctc	300
ctnctctgt	actgccggca	naattaagca	ccatntgtca	caaaaagtat	tgcgttacct	360
tcacgnatct	gttngttnc	atncttgctg	cttctccngn	ggaaaatagg	ctnttctggc	420
aaccgaacng	aanaaatac					439

<210> 676

<211> 587

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (587)

<223> n = A,T,C or G

<400> 676

ngngggcctn	attaagcgcg	cgtaatacna	ctcactntgg	ggcgaattgg	gtaccgggnc	60
cccctcaagt	tnatntgccn	aacctctctt	ttggaataac	aaaagggtta	acacatatgt	120
cctcataggg	acgcgctttc	acacnttcc	gacngcttca	tanacntcat	tnctattttc	180
cctcagnaca	agttnagcn	gaagggtgagg	canacnttat	aatttccatt	tcacaaatnc	240
ggaaagttag	gctcaaagg	nttaaaaaat	aacctgatac	aantcataga	gccggtntct	300
ggaanaagca	ggagcaaagt	ccaggcatcc	tgatccaage	tnggtccact	gccttccact	360
ctggagaggc	ttcatctccg	acaaaggaag	ggacntgagt	ggctgganaa	tctcatggga	420
taaagacctc	agnatttcat	gctcctggaa	atcccatggg	ttgaacaaca	ggtntttggc	480
ccgtggttct	ntccctttgn	ccatctttta	accttggggt	aaatgatggc	ntctntnagc	540
nttttttttn	aaagagatng	aaattgaatg	attatnget	cattggg		587

<210> 677

<211> 444

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (444)

<223> n = A,T,C or G

<400> 677

gtggggcatn	attaagcgcg	cgtaatacga	ctcactatag	gggcgaantg	ggtaccgggc	60
ccccctcgaa	gcggccgccc	tttttttttt	tttttactgt	ccaaactntc	tatngatnta	120
gttgaactgt	ncaacgattt	catgaaattc	tatacacana	gccttcaggt	ccagagagta	180

aaacaaat	aaattnttc	accanattgn	agcagncana	agcatccnat	natatccgac	240
tacaatgaat	natatgctna	nggtanctna	tttaccact	ntggggtctt	tanggtctgt	300
cacaaactat	tttcgtaaac	atcnmtttaa	antnnggtga	atggacctaa	tnccagataa	360
ntctatttna	tnaccctag	catnccgtg	gctnactttn	cgggctgtgt	tggcntactt	420
ttaggagaaa	attggtataa	atnn				444

<210> 678

<211> 670

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (670)

<223> n = A,T,C or G

<400> 678

actagtccag	tgtgggtggaa	ttccattgtg	ttgggagcag	tttaaaaaaa	aaaaagacna	60
aataacnac	tcttgatnaa	acataaaggt	acagtggctt	atgaggaana	gaaaagggtac	120
ctnaggatgc	aaaantacct	accacatggg	aaccgttngt	ccacactcat	tcnnananaa	180
accgagtcct	ctcanttnca	cacgtgtacg	tttcagttgg	gaagtgcctg	ccattactcc	240
naagcctaga	accttcacgt	cctgaagggt	ctggaagggt	tttcagattg	cttaaganac	300
gngcccttc	catattcntc	tccactaccc	nggggaacgg	aacaaatgga	gctgcgacng	360
ggaagcgtcc	cttccentcc	gaacgctttc	tttcaaacct	gcctgccttc	cnggcgaatg	420
gaccggaagg	tttncnngct	tcctttcanc	ccnaattact	tcctgngttg	aaaattggcc	480
tggttggttg	caaatgcngg	aatttggtta	ctttcntcat	gtcctgtggt	gnncnaaccg	540
gctcncttgt	tgctccctt	tngaaagggt	ttcatcaggc	ccgcctctt	ctcttntaan	600
ngtcctaate	cggncnggac	cactcgggga	aaattttttc	ttttcgaaaa	gccgccccnt	660
cgcgcgggt						670

<210> 679

<211> 449

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (449)

<223> n = A,T,C or G

<400> 679

actagtccag	tgtgggtggaa	ttccattgtg	ttgggagtag	gtctactaca	ncctacttcc	60
cctatcatan	aagancttan	caacnttcat	gatccccccc	tentannect	tttctcanc	120
tgctcctag	tcctgtttgt	cctnttctca	acantentaa	ganagatnac	taatnctact	180
atctctnacc	tcggaanct	acaanacgtc	tggaactatt	cngaccccat	gcancncat	240
ncctocatgt	cctcccagcc	cctncccttc	ctttacntta	ctnaacgaag	gtcgacgac	300
cctcccntac	ctcccnnc	attgggnccc	aanggnactg	gacctcacga	ntacaccnac	360
tacggggnga	ctaagnctgn	aactccttac	atatntcccc	gttacccecn	gaacncagcg	420
aacngcnaca	ccttggaant	caagaanta				449

<210> 680

```
<220>
<221> misc_feature
<222> (1)...(670)
<223> n = A,T,C or G
```

```
<210> 681
<211> 494
<212> DNA
<213> Homo sapien
```

```
<220>
<221> misc_feature
<222> (1) ... (494)
<223> n = A,T,C or G
```

```
<210> 682
<211> 263
<212> DNA
<213> Homo sapien
```

```
<220>  
<221> misc feature
```


<223> n = A, T, C or G

tgatcattca	agcgtngnc	gnataacgat	tgctnagccc	aacctttcat	agggctggttc	60
ctttgggaat	nggatgtcta	ttgaatggca	gggatagggg	cactcggcat	tgcctctggtg	120
tacagttttg	catatatatc	ctcatcgcg	gcgagcgtag	gggancgtta	agtttggggg	180
aatgccnccg	catgnccctn	cggagctta	aacccccaac	aatnccatt	tnaaaaaag	240
ntttnttant	taaaaaaaaa	aac				263

<213> Homo sapien

<223> n = A, T, C or G

cttgcccggc	atgcacagac	ntntttacgg	acacnctact	ccaagnagac	ctgnanctgt	60
ctacgggtcaa	nctctaaggt	tngncantgc	cacanatggc	atagtcccg	ggcgggtnan	120
tctggantgc	tctctgcact	tgaacntaaa	gcgcntttca	aganaggnt	aatngcctgc	180
ctcttgacaa	cnaacaancc	cacaccnacc	tangaccctn	tangcaagga	ctggattctg	240
naaatgcaat	acaca					255

<213> Homo sapien

<223> n = A, T, C or G

acccttcatt	tcatgtgctt	ctatttttct	acatctttta	catgactaag	ggattaatga	60
aatcacctct	tcataatcat	gaccataaatt	tcatccaaca	agtactcaag	tttgggtgta	120
gcacttttatt	aatgcttacg	aattctctct	ctctccctct	ttctcttttc	cttagtcctt	180
gcacaataag	gatttttgaa	tgtataatat	catcttaggt	aagctttcat	atgggttttg	240
catatgaagc	ttatgactgt	cataagccat	accaagcctg	tggagtatgg	catgattttc	300
attacataat	ccaatgaaaa	tagacttatt	ttaaatccct	aactttgtag	ttttaatttg	360
tatttcacta	tcttgaaaatt	aacagctagt	acttatccat	cacagcagtc	tcctactgac	420
atgaagcaag	ttgttgaatg	cagtaganca	tgaatgaaag	catttaatgt	tanacaaaaa	480
tgggtgatac	ccaagcattc	tgaattattt	gcatcaagga	atgggacatg	tacattagtg	540
gcatcatttc	taccaatatg	tgacttgaat	tgttttttta	aaaaaaggan	aatgantttc	600
tcaatttgct	ttaaaaaatt	ttnaaaaagt	tcaatggcat	gctgctttgt	ctggacttaa	660
tttattaaca	attnttaanc	cttccttaag	gacanaaatt	tgggtgttcag	gatcnccttg	720
aagggtctta	tttttnatan	nattccaaac	ccaaaagggtg	gtttaaaaatg	gnggggttcc	780

<223> n = A,T,C or G

<400> 687

aatctgcact	ggaaaatgct	ctaaaataag	ccctaggtct	tgcatagaatt	gggttttcag	60
tttcttttta	agctgcactt	tgagaactgc	ttctctggac	ccctgttcc	gaagtatgcc	120
atctaggatt	ctgggttcagt	aagatctcag	ttaatcatga	tgtgtgtgga	gggtgtgttt	180
tgaagttnag	tggagttctt	tggcaagatc	agagctttca	atatgttnaa	acttcagggc	240
tctctgagaa	gaggacatag	cttgtagtgt	t			271

<210> 688

<211> 740

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (740)

<223> n = A,T,C or G

<400> 688

tgatgaagcg	cgcgtnntac	nactcactat	nggggcgaan	tatgggtacc	gggncccoct	60
cgaagcggcc	gccctttttt	tntttttttg	tgagagttta	aataaaatat	ttgagtttaa	120
tttaaagttt	gagtttaatt	aaaatatatg	gcatatccca	agttgggctt	tgcanaaaga	180
acactttctca	ggaactgtta	gttgggtgtac	caggaactca	gaagggctct	gttattaaat	240
atattttgaa	aatgcatgga	ttctctgaan	atcncctctgc	atgtgagcaa	cacttacatc	300
ncaaaccaaa	attggcattg	catacatnaa	ccaatatttc	ccaaacattt	ctggttatgg	360
cccacccct	ttgtgtanta	cttattgctg	ttttttggaa	ccctggggaa	attacttaaa	420
atattcagct	ggaaattaca	ggcgttactt	ttaaggganc	aagaattaca	gtgactccca	480
aaattgcaag	tggtgattac	tatttaagaa	cccaagaatt	tgaaagaaat	tttgaaaagt	540
gaaaacngga	aatnttaaat	gactttctca	atntttgaaa	ctcnggnaaa	catctccact	600
ttggtnccct	tccttttaaaa	attggctaaa	aattntttnt	tatnccacc	ccattggaan	660
tncccccccc	ctggaacaat	tggattcccc	tatttcttaa	aaaacggccn	cccccccg	720
ggngaacncc	nacnttttgn					740

<210> 689

<211> 635

<212> DNA

<213> Homo sapien

<220>

<221> misc_feature

<222> (1) ... (635)

<223> n = A,T,C or G

<400> 689

actagtccag	tgtgggtgga	ttccattgtg	ttgggattac	atatactttt	agcaattttt	60
aaagaagtgt	acaaagtgtg	gatgtttcct	gagctctcat	atatctgana	atgtcatttt	120
acatctccgt	cttcacctct	caaaacttct	ttcaattctt	tggctcttaa	tagtaatcaa	180
cacttgcaact	ctggagtcac	tgtaattctt	gtccttttac	agctacncc	gttattttcca	240
gctgaatatt	tttagttatt	tcccaggggt	ccaaaaaaca	gcaataagta	ctacacaaag	300
ggggtgggccc	ataaccagaa	atgtttggga	aatactggct	catgtatgca	atgccaaatc	360

```
<210> 690
<211> 3923
<212> DNA
<213> Homo sapien
```

<400>	690					
acagaagaaa	tagcaagtgc	cgagaagctg	gcatcagaaa	aacagagggg	agattttgtgt	60
ggctgcagcc	gagggagacc	aggaagatct	gcatggtggg	aaggacctga	tgatacacagag	120
gaattacaac	acatatactt	agtgtttcaa	tgaacacca	gataaaataag	tgaagagcta	180
gtccgctgtg	agtctcctca	gtgacacagg	gctggatcac	catcgacggc	actttctgag	240
tactcagtc	agcaaagaaa	gactacagac	atctcaatgg	caggggtgag	aaataagaaa	300
ggctgctgac	tttaccatct	gaggccacac	atctgctgaa	atggagataa	ttaacatcac	360
tagaaacagc	aagatgacaa	tataatgtct	aagtagtgac	atgtttttgc	acatttccag	420
ccccttttaa	tatccacaca	cacaggaagc	acaaaaggaa	gcacagagat	ccctgggaga	480
aatgccgggc	cgccatcttg	ggtcatcgat	gagcctcgcc	ctgtgcctgg	tcccgccttg	540
gagggaaagga	cattagaaaa	tgaattgatg	tgttccttaa	aygatgggca	ggaaaacaga	600
tcctgttgtg	gataatttat	tgaacgggat	tacagatttg	aaatgaagtc	acaaagtgag	660
cattaccaat	gagaggaaaa	cagacgagaa	aatcttgatg	gcttcacaag	acatgcaaca	720
aacaaaatgg	aatactgtga	tgacatgagg	cagccaagct	ggggaggaga	taaccacggg	780
gcagagggtc	aggattctgg	ccctgctgcc	taaactgtgc	gttcataaac	aatcatttc	840
atatttctaa	ccctcaaac	aaagctgttg	taatattctga	tctctacggt	tccttctggg	900
ccaacattc	tccatatatc	cagccacact	cattttta	atttagttcc	cagatctgta	960
ctgtgacctt	tctacactgt	agaataacat	tactcatttt	gttcaaagac	ccttcgtgtt	1020
gctgccta	atgtagctga	ctgtttttcc	taaggagtg	tctggcccag	gggatctgtg	1080
aacaggctgg	gaagcatctc	aagatctttc	caggggtata	cttactagca	cacagcatga	1140
tcattacgga	gtgaattatc	taatcaacat	catcctcagt	gtccttgccc	atactgaaat	1200
tcatttccca	cttttgtgcc	cattctcaag	acctcaaat	gtcattccat	taatcacaca	1260
ggattaactt	ttttttttaa	cctggaagaa	ttcaatgtta	catgcagcta	tgghaattta	1320
attachatatt	ttgttttcca	gtgcaaagat	gactaagtcc	tttatccctc	ccctttgttt	1380
gatttttttt	ccagtataaa	gttaaaatgc	ttagccttgt	actgaggctg	tatacagcac	1440
agcctctccc	catccctcca	gccttatctg	tcatcaccat	caacccctcc	cataccacct	1500
aaacaaaatc	taacttgtaa	ttccttgAAC	atgtcaggac	atacattatt	ccttctgcct	1560
gagaagctct	tccttgtctc	ttAAAtctag	Aatgatgtaa	agttttgAat	AagttgActa	1620
tcttacttca	tgcaaaGaag	GgAcacatat	gagattcatc	atcacatgag	acAgcaAata	1680
CtaaaAGTgt	AatttgattA	TaagagTTta	gataaaTata	TgaaATGcaa	gagCcaCaGa	1740
gggaatgttt	atggggcacg	tttgTaagcc	TgggatGTga	agcaaaggca	gggaacctca	1800
tagtatctta	tataatatac	ttcattttctc	tatctctatc	acaattcca	acaagctttt	1860
cacagaattc	atgcagtgya	AatccccAAA	ggtaaccttt	atccatttca	Tggtgagtgc	1920
gctttagaat	tttgGcaaat	catactggtc	acttatctca	actttgagat	gtgtttgtcc	1980
ttgttagtta	ttgaaagaaa	tagggcactc	ttgtgagcca	ctttagggtt	CActcctggc	2040
Aataaagaat	ttacaaagag	ctactcagga	ccagtgttta	agagctctgt	gtgtgtgtgt	2100
gtgtgtgtgt	gagtgtagat	gcCAAagTgt	gcctctctct	cttgacccat	tatttcagac	2160
TtaaaACAag	catgttttca	Aatggcacta	TgagctGCCa	atgatgtatc	accaccatat	2220
ctcattattc	tcagtaaaat	gtgataataa	Tgtcatctgt	Taacataaaa	AaagtTtgac	2280
TtcAAAAag	CAgctGGaaa	Tggacaacca	caatatgcAt	AaatCTaact	cctaccatca	2340

agaaaggtttc	ctttttttttt	tttaatgggtg	aaaagatata	cacatattta	gaattagcca	60
gctgggctca	gtttagatta	ttccaattttt	gttggaaca	tccagagcat	cgtaatcagg	120
agccagtgaa	acatatctct	tcttctctcc	atcaggccaa	atcacggtgt	tgaccttggc	180
cacatcaatg	tcttagaact	tcttcacagc	ctgtttgatc	tggtgcttgt	tggctttaac	240
atccacaatg	aacacaagtg	tgttgttgtc	ttctatcttc	ttcgtgggta	ctcagtggtc	300
agcggaact	tgatgatagc	gtagtgggtc	agcttgatc	tcctgggagc	gctcttccaa	360
agatatttgg	gctgcctcgg	gagttgcagc	gtcttggggc	gccggaaggt	gggtgacgta	420
cggatcttct	tttttttgtg	ggctgtggac	acctttcaac	actgtcttct	tggcctttaa	480
atccttcgct	ttggtttcgg	ctataggagg	ggcaggagct	tccttcttca	ctttcggcgc	540
catcttgtga	aaagggaag	tttcctttct	aataccattt	tcacttctcc	cgaattttgt	600
ggatcgtttc	ttggatatcta	ccccagattt	caggagtgtt	ggctggatct	tagggattgt	660
gaagtcttca	tttcctgtg	gtgagatctg	aggcatgatt	ttaaacagtg	tgagggaagg	720
agatctccag	gcactttaat	agaatggaga	agcaggatgg	gatttgagag	gaaatctgat	780
tttgaaaaaa	ggagaactag	agttgagttc	gtaattaact	agcaccttaa	aggtcattca	840
gcatgcccac	ctgcacagtg	ggtgtaatca	ccctacagaa	caaaaacaaa	aaggcaatgg	900
agaggaagct	gtaaagcact	gtacatgttt	aactcattgt	tatgtaagct	agccgaaggc	960
ttcacagact	tgaattcatc	tccaagtctc	tcttctgtga	ctggaaactc	tgcttaggt	1020
tgcttaaaaac	ttgagaaaaca	gaatattgct	tccctgctct	gccttcttga	gtacacttgc	1080
ctacacaaaag	atgcacatcc	ttgttttgtg	gtgtgtgtcc	atttgctgtg	acattcttgt	1140
gaaagtcaaaa	gtttcccagc	tgttgacata	cacaagtttg	tttggtgcaa	cctgtcagat	1200
gcatccctta	gacaggccct	ttgatactct	gggaaagaca	ttggacttac	agtcggaacg	1260
aaaaagaaaaga	aatgtgatat	gtatagcgtg	cagtgagttg	gagttttacc	tgtattgttt	1320
taattttcaac	aagcctgagg	actagccaca	aatgtaccca	gtttacaaat	gaggaaacag	1380
gtgcaaaaag	gttgttacct	gtcaaaggctc	gtatgtggca	gagccaagat	ttgagcccag	1440
ttatgtctga	tgaacttagc	ctatgctctt	taaacttctg	aatgctgacc	attgaggata	1500
tctaaaactta	gatcaattgc	attttccctc	caagactatt	tacttatcaa	tacaataata	1560
ccaccttttac	caatctattg	ttttgatacg	agactcaaat	atgccagata	tatgtaaaaag	1620
caacctataca	gctctctaata	catgctcacc	taaaagattc	ccgggatcta	ataggctcaa	1680
agaaacttct	tctagaaaata	taaaagagaa	aattggatta	tgcaaaaatt	cattattaat	1740
ttttttcatc	catccttttaa	ttcagcaaac	atttatctgt	tgttgacttt	atgcagtatg	1800
gcctttttaag	gattggggga	caggtgaaga	acggggtgcc	agaatgcac	ctcctactaa	1860
tgagggtcagt	acacatttgc	attttaaaat	gccctgtcca	gctgggcatg	gtggatcatg	1920
cctgtaatct	caacattgga	aggccaaggc	aggaggattg	cttcagccca	ggagttcaag	1980
accagcctgg	gcaacataga	aagaccccat	ctctcaatca	atcaatcaat	gccctgtctt	2040
tgaaaataaaa	actcttttaag	aaaggtttaa	tgggcagggt	gtggtagctc	atgcctataa	2100
tacagcactt	tgggaggctg	aggcaggagg	atcactttag	cccagaagtt	caagaccagc	2160
ctgggcaaca	agtgcacacct	catctcaatt	ttttaataaaa	atgaatacat	acataaggaa	2220
agataaaaaag	aaaaagttaa	tgaagaataa	cagtataaaa	caaactctct	ggacctaaaa	2280


```
<210> 702
<211> 4894
<212> DNA
<213> Homo sapiens
```



```

gggttcacct tctcagccct gcagatccct ccctacacac tggcctccct ctaccaccgg 3060
gagaagcagg tgttcctgcc caaataccga ggggacactg gaggtgctag cagtgaggac 3120
agcctgatga ccagcttccct gccaggccct aagcctggag ctcccttccc taatggacac 3180
gtgggtggtg gaggcagtgg cctgctccca cctccaccgg cgctctgcgg ggccctctgcc 3240
tgtgatgtct ccgtacgtgt ggtggtgggt gagccaccgg aggccagggt gggtccggggc 3300
cggggcatct gcctggacct cgccatccct gatagtgcct tccctgctgtc ccagggtggcc 3360
ccatccctgt ttatgggctc cattgtccag ctccagccagt ctgtcactgc ctatatgggtg 3420
tctgcgcgag gcctgggtct ggtgcgccatt tactttgcta cacaggtagt atttgacaag 3480
agcgacttgg ccaataactc agcgtagaaa acttccagca cattgggggtg gagggcctgc 3540
ctcactgggt ccagctccc tgctcctgtt agccccatgg ggctgccggg ctggccgcca 3600
gtttctgttg ctgccaaagt aatgtggctc tctgctgccca cctgtgctg ctgagggtgcg 3660
tagctgcaca gctgggggct ggggcgtccc tctcctctct cccagctctc tagggctgcc 3720
tgactggagg ccttccaagg ggggttcagt ctggacttat acaggggaggc cagaagggtct 3780
ccatgcactg gaatgcgggg actctgcagg tggattacc aggcctcaggg ttaacagcta 3840
gcctcctagt tgagacacac ctagagaagg gtttttggga gctgaataaa ctcagtcacc 3900
tgggttccca tctctaagcc ccttaacctg cagcttcgtt taatgtagct cttgcatggg 3960
agtttctagg atgaaacact ccaccatggg atttgaacat atgaaagtta tttgtagggg 4020
aagagtccct aggggcaaca cacaagaacc aggtccctc agccacagc actgtctttt 4080
tgctgatcca ccccccctct accttttctc aggatgtggc ctgttgggtcc ttctgttgcc 4140
atcacagaga cacaggcatt taaatattta acttatttat ttaacaaagt agaagggaat 4200
ccattgctag cttttctgtg ttggtgtcta atatttgggt aggggtggggg atccccaaca 4260
atcaggctcc ctgagatagc tggtcattgg gctgatcatt gccagaatct tcttctcctg 4320
gggtctggcc cccaaaatg cctaaccag gaccttggaa attctactca tccaaaatga 4380
taattccaaa tgctgttacc caaggttagg gtgttgaagg aaggtagagg gtggggccttc 4440
aggctctaac ggcttcccta accacccctc ttctcttggc ccagcctggg tccccccact 4500
tccactcccc tctactctct ctaggactgg gctgatgaag gcactgcccc aaatttcccc 4560
tcccccaac tttccctac ccccaacttt cccaccagc tccacaacc tgtttgaggc 4620
tactgcagga ccagaagcac aaagtgcggg ttcccaagcc tttgtccatc tcagccccca 4680
gagtatatct gtgcttgggg aatctcacac agaaactcag gagcaccccc tgccctgagct 4740
aaggagggtc ttatctctca ggggggggtt aagtgcggtt tgcaataatg tcgtcttatt 4800
tatttagcgg ggtgaatatt ttatactgta agtgagcaat cagagtataa tgtttatggg 4860
gacaaaatta aaggctttct tatatgttta aaaa 4894

```

<210> 703
 <211> 2904
 <212> DNA
 <213> Homo sapiens

```

<400> 703
gtctatgcct tcatgatcag tcttgggggc tgccctgggt acctcctgcc tgccattgac 60
tgggacacca gtgccttggc cccctacctg ggcaccagg aggagtgcct ctttggcctg 120
ctcaccctca tcttccctac ctgcgtagca gccacactgc tgggtggctga ggaggcagcg 180
ctgggccccca ccgagccagc agaagggtcg tcggccccct ccttgtcgcc cactgctgt 240
ccatgccggg ccgcttggc tttccggaac ctgggcgccc tgcttccccg gctgcaccag 300
ctgtgctgcc gcatgccccg caccctgcgc cggctcttcg tggctgagct gtgcagctgg 360
atggcactca tgaccttcac gctgttttac acggatttcg tgggcgaggg gctgtaccag 420
ggcgtgcccc gagctgagcc gggcaccgag gcccgagac actatgatga aggaaggcct 480
ctggctgctc taggagtctg atcagagtcg ttgccccagt ttgacagaag gaaaggcgga 540
gcttattcaa agtctagagg gagtggagga gttaaggctg gatttcagat ctgcctgggt 600
ccagccgcag tgtgcctct gctccccca cgactttcca aataatctca ccagcgccct 660

```

ccagctcagg cgtcctagaa gogtcttgaa gcctatggcc agctgtcttt gtgttccctc 720
 tcacccgcct gtcctcacag ctgagactcc caggaaacct tcagactacc ttctcttgcc 780
 ttcagcaagg ggcgttgccc acattctctg agggcggttc gatgggcagc ctggggctgt 840
 tcctgcagtg cgccatctcc ctgggtcttct ctctgggtcat ggaccggctg gtgcagcgat 900
 tgggcaactg agcagtctat ttggccagtg tggcagcttt ccctgtggct gccggtgcca 960
 catgcctgtc ccacagtgtg gccgtggtga cagcttcagc cgccctcacc gggttcacct 1020
 tctcagccct gcagatcctg ccctacacac tggcctccct ctaccaccgg gagaagcagg 1080
 tgttcttgcc caaataccga ggggacactg gaggtgctag cagtgaggac agcctgatga 1140
 ccagcttctt gccaggccct aagcctggag ctcccttccc taatggacac gtgggtgctg 1200
 gaggcagtgg cctgctccca cctccaccgg cgctctgcgg ggctctgccc tgtgatgtct 1260
 cgtacgtgt ggtggtgggt gagcccaccg agggcagggt gggtccgggc cggggcatct 1320
 gcctggacct cgccatcctg gatagtgcct tctgctgtc ccaggtggcc ccatccctgt 1380
 ttatgggctc cattgtccag ctccagcagt ctgtcactgc ctatatggtg tctgccgcag 1440
 gcctgggtct ggtcgccatt tactttgcta cacaggtagt atttgacaag agcgacttgg 1500
 ccaaatactc agcgtagaaa acttcagca cattgggggtg gagggcctgc ctactgggt 1560
 cccagctccc cgctcctggt agccccatgg ggctgcgggg ctggccgcca gtttctgttg 1620
 ctgccaaagt aatgtggctc tctgctgcca ccctgtgctg ctgaggtgcg tagctgcaca 1680
 gctgggggct ggggcgtccc tctcctctct cccagctctc tagggctgcc tgactggagg 1740
 ccttccaagg gggtttcagt ctggacttat acaggagggt cagaagggt ccatgcactg 1800
 gaatcgggg actctgcagg tggattaccc aggtcagggt ttaacagcta gcctcctagt 1860
 tgagacacac ctagagaagg gtttttggga gctgaataaa ctcagtcacc tggtttccca 1920
 tctctaagcc ccttaacctg cagcttcgtt taatgtagct cttgcatggg agtttctagg 1980
 atgaaacact cctccatggg atttgaacat atgaaagtta tttgtagggg aagagtccctg 2040
 aggggcaaca cacaagaacc aggtccctc agcccacagc actgtctttt tgctgatcca 2100
 cccccctctt accttttatac aggatgtggc ctgttgggtc ttctgttgcc atcacagaga 2160
 cacaggcatt taaatattta acttatttat ttaacaaagt agaagggaat ccattgctag 2220
 cttttctgtg ttggtgtcta atatttgggt aggggtgggg atccccaaca atcagggtccc 2280
 ctgagatagc tggtcattgg gctgatcatt gccagaatct tcttctcctg ggggtctggcc 2340
 ccccaaatg cctaaccag gaccttgga attctactca tcccaaatga taattccaaa 2400
 tgctgttacc caaggttagg gtgttgaagg aaggtagagg gtggggcttc aggtctcaac 2460
 ggcttcccta accaccctc ttctcttggc ccagcctggt tccccccact tccactcccc 2520
 tctactctct ctaggactgg gctgatgaag gcactgccc aaatttcccc tcccccaac 2580
 tttcccctac cccaacttt cccaccagc tccacaacce tgtttggagc tactgcagga 2640
 ccagaagcac aaagtgcgtt ttcccaagcc tttgtccatc tcagcccca gagtatatct 2700
 gtgcttgggg aatctcacac agaaactcag gagcaccccc tgctgagct aaggagggtc 2760
 ttatctctca gggggggttt aagtgcgtt tgcaataatg tctcttatt tatttagcgg 2820
 ggtgaatatt ttatactgta agtgagcaat cagagtataa tgtttatggt gacaaaatta 2880
 aaggctttct tatatgttta aaaa 2904

<210> 704
 <211> 4034
 <212> DNA
 <213> Homo sapiens

<400> 704
 aaccagcctg cagcgctgg ctccgggtga cagccgcgcg cctcgccag gatctgagtg 60
 atgagacgtg tccccactga ggtgccccac agcagcaggt gttgagcatg ggctgagaag 120
 ctggaccggc accaaagggc tggcagaaat gggcgctgg ctgattccta ggcagttggc 180
 ggcagcaagg aggagaggcc gcagcttctg gagcagagcc gagacgaagc agttctggag 240
 tgctgaacg gcccctgag ccctaccgc ctggcccact atggtccaga ggctgtgggt 300

Leu Trp Leu Ala Leu Leu

150

<400> 708 .

Pro Ser Leu Ser Pro His Cys Cys Pro Cys Arg Ala Arg Leu Ala Phe
210 215 220

<223> n=A,T,C or G

```

cnatccttcn cntacaccca tgangtccat gtcgcacgtc cacctcccct caaaaacttgg 60
gtccncatcc acccgtcact ctcccccntaa ncnataaccc cttttngcga atagacccca 120
ccttancaat nggttttttcn ttttttgtec ctnggnccgn gcgattcaan aaattgaagg 180
cccaaaaaaa cccctt                                     196

```

<213> Homo sapiens

<223> n=A,T,C or G

```
ntacntcnct ccnaatgaaa ttcgaaante ggttaccogg ggnatttceg attaggngcg 60
tantctcgga tgtgcagtc caagtctttt gctaattnctt ataattnten ctaccttttc 120
ttcnacaata ctgctatcct antntttctn tencctctct cccannttac taaccac 177
```

<213> Homo sapiens

<223> n=A,T,C or G

```

aaacgnacca nngccaaacga tangtggttg ngttggttgc ggttgttcct cttatntgca 60
ctggttggtcc gtgtcgcaacg ganggccacg tccctctgnc ntgagtanca catagcatcc 120
acgttttagtc gactntnccg ggcggccgct ctaccctnt atngattcct attaaaantc 180
ggatc                                             185

```

<213> Homo sapiens

<223> n=A,T,C or G

```
<400> 716
nntgcgtcgc ctgngcgtnt actctagatg atctgantag tcatatggat tctaatacga 60
ctcannatag ggctctageg nggatncnga ttctctctcc ngattcantg acnccggtan 120
```


122

```
<220>  
<221> misc_feature  
<222> (1) ... (203)  
<223> n=A,T,C or G
```

```
<210> 718
<211> 168
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1) ... (168)  
<223> n=A,T,C or G
```

<400> 718						
ggcagganga	tcncttgagc	cccngaggtc	gaggctacag	tgagccanga	gtgcactact	60
gtnnccgccct	cgcacnccac	gnctgggtccg	atccccgggt	accganctng	anttcactgg	120
anttcctttt	aancgtnttg	antggtacna	ccctcgantc	cctggctg		168

```
<210> 719
<211> 210
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1) ... (210)  
<223> n=A,T,C or G
```

```
<400> 719
cancgctcgc ataacacgta tttnttgatn aagattctna ctgacccatn aantctacnt 60
ctcaagctct tncanngtcc agtnaangga atgtgtatnn gtnggggatnc cacanaaaaa 120
aganatntcg gncgcttcat tantcatcct tcttaccan ntctctngat nencagntng 180
ancntgaacg cacactacng gatntctcca                210
```

$$\begin{array}{ll} \langle 210 \rangle & 720 \\ \langle 211 \rangle & 131 \end{array}$$

$\langle 220 \rangle$

[illegible]


```
<210> 735
<211> 126
<212> DNA
<213> Homo sapiens
```

```
<400> 735
ncnttgaaac nggttgacca gacttcaggc ctgtgcgctc aatcgtggag aatctcgtgc 60
cgaattcggc acgagtctct ctctctctct ctctctctct ctctctctct ntctctctct 120
ctctctct                                     . 126
```

```
<220>  
<221> misc_feature  
<222> (1)...(165)  
<223> n=A,T,C or G
```

```
<210> 737
<211> 125
<212> DNA
<213> Homo sapiens
```

```
<220>  
<221> misc_feature  
<222> (1) ... (125)  
<223> n=A,T,C or G
```


<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (739)
<223> n=A,T,C or G

<400> 740
gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccacca tcaatcagtg aacttttttag cctactcaaa 120
gctttgctcc aatgcatagg atttatgatt gtggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcagtgagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gttcctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatgggtg attttgcagc 360
tgcccaaata gtcactgggtt gatttttacct agcaggagat ttttgcaaaa atttcctggg 420
tgagagtga atcaaaactcc tattttgttt ctctctgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaact ggccgtgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc 739

<210> 741
<211> 1171
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> (1) ... (1171)
<223> n=A,T,C or G

<400> 741
gccttgnggt gacactatag aacatgtttg tacaaaaaag caggctggta ccggtccgga 60
attcgcgggc gcgtcgacgg cccttnntgc cactagttct ttcattcttc cccccatca 120
atcagtgaac tttttagcct actcaaagct ttgctccaat gcataggatt tatgattgtg 180
gggatttcca gataatataa atattcaaca tgaatatttt aaattaaggc atgagacatt 240
tttcttaact gagcatagcc atgaacctct cagctctgtt cctctgtgtc agtttgtagc 300
actgaatata gcagccctcc taaaagtcca ggcagtgcac aggtcttgac atgatgaagt 360
gacgtgttgc tatggtgatt ttgcagctgg ccaaatagtc actggttgat tttaccagc 420
aggagatttt tgcaaaaatt tcctgggtga gagtgaatc aaactcctat tttgtttctc 480
ctctgcaagc tgtagttaag aagggtattaa tggagtactt tttagaatt aaattaacct 540
cttgaaagaa gaaaaaatgg gggaagaaaa aaagtggaag ggaaaagggn ttggttttgg 600
gccnaaaaaa agtttccaan tttnggcntt ggggaaaaat tccccntttt ccttggnaaa 660
aggggggnaa ggttaancct tgggaacctt tttccnccct tttnggcccc aaaggggaac 720
ccanggggaa agaaccttta ggnaaaggaa acccatttgg gaanggggtt naaaacctnt 780
ngggcccccg ggccctcttc caanaaggga aaaaaaaagg cctggaaaaan gtaccagggt 840
ttcangggna aaanttaaaa ttcttgacca atancnccat aattgggaat tatggggggg 900
ccatgggctt ttggttttgg cnccttaacc cgcnttttaa attcaaanna aaaaaaagn 960

```

gttttgaaaa nnaaanaaaa aaaattnaan ggncccnaaa aaaaaccctg gaaaaccttt 1020
ggaaaaaaat tngnnggggg gcnnttttgt tggggggggt tnaaaaaacc ccctnggggg 1080
ttttttaagc ccaaaagggg gggaggggna aaanggtnc cttntttttt ttttngccc 1140
cccttgggga atggnttant tcanggggcc c 1171

```

```

<210> 742
<211> 739
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(739)
<223> n=A,T,C or G

```

```

<400> 742
gntgtcnaaa aagcaggctg gtaccgggtcc ggaattcgcg gccgcgtcga cggcccttgg 60
tgccactagt tctttcattc ttcccccncca tcaatcagtg aacttttttag cctactcaaa 120
gctttgtctc aatgcatagg atttatgatt gtgggggattt ccagataata taaatattca 180
acatgaatat tttaaattaa ggcatagagac atttttccta actgagcata gccatgaacc 240
tctcacgtct gtctctctgt gncagtttgt agcactgaat acagcagccc tcctaaaagt 300
ccaggcagtg cacagggtctt gacatgatga agtgacgtgt tgctatggtg attttgcagc 360
tggccaaata gtcactgggtt gattttaccc agcaggagat ttttgcaaaa atttcttggg 420
tgagagtga atcaaaactcc tattttgttt ctctcttgca agctgnagtt aanatggatt 480
aatgagtact tttagattaa ttaactctga agagaaaatg ggagaaaagn gaggaagggtt 540
gttggcagaa gtcattgctg gaatccttct gaaggagta ctgacttcac ttgcaaagac 600
aagagactan aagacaatga agttaaaactt ggctgtctn tcatatgata gatgcttgag 660
agtacaggnt cagggaaatt ttaattctgn catacgcata ttggattatg tgggtcatgg 720
ctttgtttgg cncctaacc 739

```

```

<210> 743
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(610)
<223> n=A,T,C or G

```

```

<400> 743
ctgtccttat ttcttttagca aaaattttccc aagagaagaa ttgttgggat aatgcacatt 60
taaatTTTTg atagacattc ccaaatatta tacctgtttt tgagacctt aattcctgtt 120
gtcaaatTgc cctatatatg gagtaataaa cagcatttaa agaaatgagg actaaaaaaa 180
gattatatat aacccaacat aaaggcaacc tcttaggcgt tgacagaaac tgacaacttt 240
ttatctgttg gtgcgatcca ttataagtaa cctgagcacc ttattttttc tttttaaact 300
ctaggttaga taccgagggt ccacaaattt ttcataagaa atattttttc tctgccctat 360
gagattttta aaaatattat actgcttcaa ttgcatcaaa agaaatggac cctaatatct 420
atgatgaagg atttggagtt agaagacctg agtttcaatt ttggcatggc tgtttgtcta 480
gctctngat cttggacagg tcaattgaat tggcttaate ttctcatcca tttagnggag 540
acagcaccac tattcacagg actattgnon gaattaccag acaatagcat aggnagaaat 600

```

ataangcctt

610

<210> 744
 <211> 127
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(127)
 <223> n=A,T,C or G

<400> 744
 ttnacctccc tggaccgggc ccccttccc cgggcggntc ccccgggctg caggaattct 60
 gcacgaggga gagagagttt gagagagaga gagagagaga gagagagaga gagananaga 120
 gagagag 127

<210> 745
 <211> 458
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(458)
 <223> n=A,T,C or G

<400> 745
 gatatcccg gattcgcggc cgcgtcgacg tggcctctag tttgtcctgg tccaaagcag 60
 ggaagctggg ctacgtcctg cccaggtcag ccttaggtta agggctgcct gggggaggga 120
 acttctctggg ccttcgggctc tctgtgcaact ggggtggctc ctgtggccca gaatgcctg 180
 gagaagggtc ctactggaag cgaagggtgca gggcagcagg gcctgaggcg caggagctgg 240
 tggaggctcc cagcacaggc cgcgcgccca gtcacatcac tgctgatggg ggggggactt 300
 ggggagtttc ccccgagaat gggagggtctc acagtccccg tgctgcaatg ctgtcggtgc 360
 actgngncng caatgtgctc atggncaact gctttttctc tgtggccccg gccgatttat 420
 ccagcanngc accctctctc tnetctccgg anaaagcc 458

<210> 746
 <211> 893
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> (1)...(893)
 <223> n=A,T,C or G

<400> 746
 aagcaggctg gtaccggctc ggaattcgcg gccgcgtcga cgtggggagt tagctctctg 60
 gaccccgctc tagagtaagt catcgataga gcatttgctt gatggggact tccagaaggc 120
 canngaaagt cctgcccact tcctggggaa gcccatccgc acgtgggggtg aggggtcccca 180

ctttgtggcg	gtggtgtctc	atttgggtgg	acttttttggg	tcgtaggaac	ctggtatnga	60
ggcgggtact	ctctgggata	atcggtataa	gtgtttgtaa	attgggggta	agagaaagtt	120
tcattataag	aagtggaagc	acgagccggg	gtgttttagtc	gttaatatta	agaccggttt	180
ttgttgtaact	tataatagctt	gcgcgtgggg	aggcaataag	aaacattgcg	tttcgaggcc	240
ggatgcgggg	aaccctcttc	ggggtctaga	gcgccgcatt	tgcaaaataa	ggactactga	300
cgccgctcat	aacgtactca	acaatgagtc	ggcctgcatt	aagatttcgg	cgaagaaccg	360
tactgcgtct	actgatagta	tattgcattg	atagcggcat	gagctttatc	acgtgtcggt	420
ttcgggttgt	aagaaggagg	ttaagtctgat	cttcgaggaa	gaagagacc	caaataaaaa	480
atgactcaaa	aaaacctaga	agaaacacga	cgaaaggaaa	aagaacgtta	aaactagtag	540
ctcttcggan	gagtagcctt	agtagggtaa	gtcctccgtg	cgtactgtcc	taaggtttgg	600
atagcgcggt	tgaataagacg	gtcacgcgtc	agaaggtaaa	aanccgg		647

<213> Homo sapiens

<223> n=A, T, C or G

cattgtgttg	gggtcactga	gcccactttt	ttccagattt	tttgtaaaat	tgtttcgc	60
tgtgttccct	ttattcgctt	gtattaatat	ttgcgtagtg	gattaaacaa	atacttggtg	120
ttgactgtca	gtcttagagg	actgactaga	agtagttttc	atttggggct	caggaaatac	180
ctactttata	tttctagcta	attaggaaag	tcatttttca	gttaggttgg	tgttttggtt	240
caggcactcg	ctagctagat	gacctaacat	gctacttaat	ttctgagtgt	ttgtgtccat	300
ccctgtagga	ttgttgcggg	gttaaataaa	attgtgtata	tttgtaaagc	atttacctca	360
gtgcccagac	tgtgacagag	tagattatta	ggcttgctct	tatttctgtg	attaaattta	420
gtgtcagatt	agcaacctat	agctacttct	aaagctgctg	ctgctttctt	tgtttagggg	480
taggaagaaa	catgctggac	agtttgccaa	atgagagtta	catgatgtgg	cttggtgggaa	540
cattctaact	tggaaactgc	ccatttccag	gactttgngg	ttcanagatt	tttggggata	600
gatgtaaggg	ttaaaaaaaa	cngaaaac				628

<213> Homo sapiens

<223> n=A,T,C or G

cattgtgttg gggcagagat aaataattcc tctgaaaagt gttttatttg aatttcaaat 60
gaaaaagctaa ctggataact tacagcatgt ttctgccaat aatctcttan aacaggcctc 120
ttttttttat gcacaccacc ttenggc 147

```
<210> 764
<211> 146
<212> DNA
<213> Homo sapiens
```


<222> (1) ... (156)

<400> 771

<210> 772

<211> 586

<212> DNA

<220>

<221> misc feature

<222> (1) ... (586)

<400> 772

<210> 773

<211> 2983

<212> DNA

<400> 773

agagatagag	tcttccctgg	cattgcagga	gagaatctga	agggatgatg	gatgcatcaa	60
aagagctgca	agttctccac	attgacttct	tgaatcagga	caacgccgtt	tctcaccaca	120
catgggagtt	ccaaacgagc	agtccctgtg	tccggcgagg	acaggtgttt	cacctgcggc	180
tggtgctgaa	ccagccccta	caatcctacc	accaactgaa	actggaattc	agcacagggc	240
cgaatcctag	catcgccaaa	cacaccctgg	tggtgctcga	cccgaggacg	ccctcagacc	300
actacaactg	gcaggcaacc	cttcaaaatg	agtctggcaa	agaggtcaca	gtggctgtca	360
ccagttcccc	caatgccatc	ctgggcaagt	accaactaaa	cgtgaaaact	ggaaccaca	420
tccttaagtc	tgaagaaaac	atcctatacc	ttctcttcaa	cccatgggtg	aaagaggaca	480
tggttttcat	gcctgatgag	gacgagcgca	aagagtacat	cctcaatgac	acgggctgcc	540
attacgtggg	ggctgccaga	agtatcaaat	gcaaaccctg	gaactttggt	cagtttgaga	600
aaaatgtcct	ggactgctgc	atttcctgc	tgactgagag	ctccctcaag	cccacagata	660
ggagggaccc	cgtgctggtg	tgcagggccca	tgtgtgctat	gatgagcttt	gagaaaggcc	720
agggcgtgct	cattgggaat	tggactgggg	actatgaagg	tggcacagcc	ccatacaagt	780

ggacaggcag tgccccgac ctgcagcagt actacaacac gaagcaggct gtgtgctttg 840
 gccagtgtg ggtgtttgct gggatcctga ctacagtgt gagagcgttg ggcattcccag 900
 cacgcagtgt gacaggcttc gattcagctc acgacacaga aaggaacctc acggtggaca 960
 cctatgtgaa tgagaatggc aagaaaatca ccagtatgac ccacgactct gtctggaatt 1020
 tocatgtgtg gacggatgcc tggatgaagc gaccggatct gcccagggc tacgacggct 1080
 ggcaggctgt ggacgcaacg ccgcaggagc gaagccaggg tgtcttctgc tgtgggccaat 1140
 caccactgac cgccatccgc aaagggtgaca tctttattgt ctatgacacc agattcgtct 1200
 tctcagaagt gaatggtgac aggtcatct ggttgggtgaa gatggtgaat gggcaggagg 1260
 agttacacgt aatttcaatg gagaccacaa gcatcgggaa aaacatcagc accaaggcag 1320
 tgggccaaga caggcggaga gatatacct atgagtacaa gtatccagaa ggctcctctg 1380
 aggagaggca ggtcatggat catgccttcc tcttctcag ttctgagagg gagcacagac 1440
 gacctgtaaa agagaacttt cttcacatgt cggtaacaatc agatgatgtg ctgctgggaa 1500
 actctgttaa tttaccgtg attcttaaaa ggaagaccgc tgccctacag aatgtcaaca 1560
 tcttgggctc ctttgaacta cagttgtaca ctggcaagaa gatggcaaaa ctgtgtgacc 1620
 tcaataagac ctgcagatc caaggccaag tatcagaagt gactctgacc ttggactcca 1680
 agacctacat caacagcctg gctatattag atgatgagcc agttatcaga ggtttcatca 1740
 ttgcggaaat tgtggagtct aaggaaatca tggcctctga agtattcacg tctttccagt 1800
 accctgagtt ctctatagag ttgcctaaca caggcagaat tggccagcta cttgtctgca 1860
 attgtatctt caagaatacc ctggccatcc ctttgactga cgtcaagttc tctttggaaa 1920
 gcctgggcat ctctcacta cagacctctg accatgggac ggtgcagcct ggtgagacca 1980
 tccaatccca aataaaatgc accccaataa aaactggacc caagaaattt atcgtcaagt 2040
 taagttccaa acaagtgaag gagattaatg ctccagaagt tgttctcatc accaagtagc 2100
 cttgtctgat gctgtggagc cttagttgag atttcagcat ttcttaacct gtgcttagct 2160
 ttcagattat ggatgattaa atttgatgac ttatatgagg gcagattcaa gagccagcag 2220
 gtcaaaaagg ccaacacaac cataagcagc cagaccacaa aggccaggtc ctgtgctatc 2280
 acagggtcac ctcttttaca gttagaaaca ccagccgagg ccacagaatc ccatcccttt 2340
 cctgagtcac ggccctcaaaa atcagggccca ccattgtctc aattcaaatc catagatttc 2400
 gaagccacag agtctctccc tggagcagca gactatgggc agccagtgctc tgccacctgc 2460
 tgacgacctg tgagaagctg ccatactctc aggccatggg ttaccagcc ctgaaggcac 2520
 ctgtcaactg gagtgtctct tcagcactgg gatgggcctg atagaagtgc attctcctcc 2580
 tattgcctcc attctcctct ctctatccct gaaatccagg aagtccctct cctggtgctc 2640
 caagcagttt gaagcccaat ctgcaaggac atttctcaag ggccatgtgg ttttgagac 2700
 aaccctgtcc tcaggcctga actcaccata gagaccatg tcagcaaacy gtgaccagca 2760
 aatcctcttc ccttattcta aagctgcccc ttgggagact ccaggagaaa ggcattgctt 2820
 cctccctggg gtgaactctt tctttggtat tccatccact atcctggcaa ctcaaggctg 2880
 cttctgttaa ctgaagcctg ctctctcttg ttctgcctc cagagatttg ctcaaagat 2940
 caataagctt taaattaaac tctacttcaa gaaaaaaaaa ccg 2983

<210> 774

<211> 3064

<212> DNA

<213> Homo sapiens

<400> 774

aattctaaaa atgcttttgc aagcttgcac gcctgcaggc gcagcggccg ccagtgtgat 60
 ggatatctgc agaattcggc ttgcgctcag ctggaattcc gcagagatag agtcttccct 120
 ggcattgcag gagagaatct gaagggatga tggatgcac aaaagagctg caagttctcc 180
 acattgactt cttgaatcag gacaacgccg tttctacca cacatgggag ttccaaacga 240
 gcagtctgtg gttccggcga ggacagggtg ttcacctgcg gctgggtgctg aaccagcccc 300
 tacaatccta ccaccaactg aaactggaat tcagcacagg gccgaatcct agcatcgcca 360
 aacacaccct ggtgggtgctc gacccgagga cgccctcaga ccactacaac tggcaggcaa 420

ccccttcaaaa tgagtctggc aaagaggtca cagtggctgt caccagttcc cccaatgcc 480
 tcctgggcaa gtaccaacta aacgtgaaaa ctggaaaacca catccttaag tctgaagaaa 540
 acatcctata ccttctcttc aaccatgggt gtaaaagagga catgggttttc atgcctgatg 600
 aggacgagcg caaagagtac atcctcaatg acacgggctg ccattacgtg ggggctgcc 660
 gaagtatcaa atgcaaaccc tggaaactttg gtcagtttga gaaaaatgtc ctggactgct 720
 gcatttccct gctgactgag agctccctca agcccacaga taggagggac cccgtgctgg 780
 tgtgcagggc catgtgtgct atgatgagct ttgagaaagg ccaggggctg ctcatgggga 840
 attggactgg ggactacgaa ggtggcacag ccccatataa gtggacaggc agtgccccga 900
 tcctgcagca gtactacaac acgaagcagg ctgtgtgctt tggccagtgc tgggtgtttg 960
 ctgggatcct gactacagtg ctgagagcgt tgggcatccc agcacgcagt gtgacaggct 1020
 tcgattcagc tcacgacaca gaaaggaaacc tcacgggtgga cacctatgtg aatgagaatg 1080
 gcgagaaaaat caccagtatg acccacgact ctgtctggaa tttccatgtg tggacggatg 1140
 cctggatgaa gcgacctac gacggctggc aggtgtgtgga cgcaacgcgc caggagcgaa 1200
 gccagggtgt cttctgctgt gggccatcac cactgaccgc catccgcaaa ggtgacatct 1260
 ttattgtcta tgacaccaga ttctgtcttc cagaagtga tgggtgacagg ctcatctggg 1320
 tgggtgaagat ggtgaatggg caggaggagt tacacgta tcaatggag accacaagca 1380
 tcgggaaaaa catcagcacc aaggcagtgg gccaaagacag gcggagagat atcacctatg 1440
 agtacaagta tccagaaggc tcctctgagg agaggcagg catggatcat gccttctctc 1500
 ttctcagttc tgagagggag cacagacagc ctgtaaaaga gaactttctt cacatgtcgg 1560
 tacaatcaga tgatgtgctg ctgggaaact ctgttaattt caccgtgatt cttaaaagga 1620
 agaccgctgc cctacagaat gtcaacatct tgggctcctt tgaactacag ttgtactactg 1680
 gcaagaagat ggcaaaactg tgtgacctca ataagacctc gcagatccaa ygtcaagtat 1740
 cagaagtga tctgacctg gactccaaga cctacatcaa cagcctggct atattagatg 1800
 atgagccagt tatcagagg ttcatcattg cggaaattgt ggagtctaag gaaatcatgg 1860
 cctctgaagt attcagctca aaccagtacc ctgagttctc tatagagttg cctaacacag 1920
 gcagaattgg ccagctactt gtctgcaatt gtatcttcaa gaataacctg gccatccctt 1980
 tgactgacgt caagtctctt ttggaaagcc tgggcatctc ctactacag acctctgacc 2040
 atgggacggg gcagcctggg gagaccatcc aatcccaaat aaaatgcacc ccaataaaaa 2100
 ctggacccaa gaaatttata gtcaagttaa gttccaaaca agtgaaagag attaagtctc 2160
 agaagattgt tctcatcacc aagtagcctt gtctgatgct gtggagcctt agttgagatt 2220
 tcagcatttc ctacctgtg cttagctttc agattatgga tgattaaatt tgatgactta 2280
 tatgagggca gattcaagag ccagcaggtc aaaaaggcca acacaacat aagcagccag 2340
 accacaagg ccaggctctg tgctatcaca gggtcacctc ttttacagtt agaaacacca 2400
 gccagggcca cagaatccca tccctttcct gagtcatggc ctcaaaaatc agggccacca 2460
 ttgtctcaat tcaaatccat agatttcgaa gccacagagc tcttccctgg agcagcagac 2520
 tatgggcagc ccagtgtgct cacctgtgta cgacccttga gaagctgcca tatcttcagg 2580
 ccatgggttc accagcctg aaggcacctg tcaactggag tgcctctctc gcactgggat 2640
 gggcctgata gaagtgcatt ctctctctat tgcctcatt ctctctctc tatcctgaa 2700
 atccagggaag tccctctctt ggtgtctcaa gcagtttgaa gcccaatctg caaggacatt 2760
 tctcaagggc catgtgggtt tgcagacaac cctgtctca ggctgaact caccatagag 2820
 acccatgtca gcaaacgggt accagcaaat cctcttccct tattctaaag ctgcccctg 2880
 ggagactcca gggagaaggc attgttctct cctgggtgtg aactctttct ttgggtattcc 2940
 atccactatc ctggcaactc aaggctgctt ctgttaactg aagcctgctc cttctgttct 3000
 tgcctccag agatttgcctc aaatgatcaa taagctttaa attaaaccgg aatccgggga 3060
 attc 3064

<210> 775

<211> 684

<212> PRT

<213> Homo sapiens

<400>	779						
gattacgcaa	gctattttagg	tgacactata	gaatwctcag	cttgcaccaa	gcttggtacc	60	
gagctcggat	ccctagtaac	ggccgccagt	gtgctggaat	tcgcccttgc	agccgggctc	120	
agcatgagga	acagaaggaa	tgacactctg	gacagcacc	ggaccctgta	ctccagcgcg	180	
tctcggagca	cagacttgct	ttacagtga	agcgacttgg	tgaattttat	tcaagcaaat	240	
tttaagaaac	gagaatgtgt	cttctttacc	aaagattcca	aggccacgga	gaatgtgtgc	300	
aagtgtggct	atgccagag	ccagcacatg	gaaggcacc	agatcaacca	aagtgagaaa	360	
tggaaactaca	agaaacacac	caaggaattt	cctaccgacg	cctttgggga	tattcagttt	420	
gagacactgg	ggaagaaagg	gaagtatata	cgtctgtcct	gcgacacgga	cgcggaatac	480	
ctttacgagc	tgctgaccca	gcactggcac	ctgaaaacac	ccaacctggt	catttctgtg	540	
accggggggcg	ccaagaactt	cgccctgaag	ccgcgcacgc	gcaagatctt	cagccggctc	600	
atctacatcg	cgcagtccaa	aggtgcttgg	attctcacgg	gaggcaccca	ttatggcctg	660	
atgaagtaca	tcggggaggt	ggtgagagat	aacaccatca	gcaggagttc	agaggagaat	720	
attgtggcca	ttggcatagc	agcttggggc	atggtctcca	accgggacac	cctcatcagg	780	
aattgcgatg	ctgaggggcta	tttttttagcc	cagtacctta	tggatgactt	cacaagagat	840	
ccactgtata	tcctggacaa	caaccacaca	catttgtctg	tcgtggacaa	tggtgtcat	900	
ggacatccca	ctgtcgaagc	aaagctccgg	aatcagctag	agaagtatat	ctctgagcgc	960	
actattcaag	attccaacta	tggtggcaag	atccccattg	tgtgttttgc	ccaaggaggt	1020	
ggaaaagaga	ctttgaaagc	catcaatacc	tccatcaaaa	ataaaattcc	ttgtgtggtg	1080	
gtggaaggct	cgggccagat	cgctgatgtg	atcgctagcc	tggtggaggt	ggaggatgcc	1140	
ctgacatctt	ctgccgtcaa	ggagaagctg	gtgcgctttt	taccccgcac	ggtgtcccgg	1200	
ctgcctgagg	aggagactga	gagttggatc	aaatggctca	aagaaattct	cgaatgttct	1260	
cacctattaa	cagttattaa	aatggaagaa	gctggggatg	aaattgtgag	caatgccatc	1320	

tectacgctc tatacaaage cttcagcacc agtgagcaag acaaggataa ctggaatggg 1380
 cagctgaage ttctgctgga gtggaaccag ctggacttag ccaatgatga gattttcacc 1440
 aatgaccgcc gatgggagtc tgetgacett caagaagtea tgtttacggc tctcataaag 1500
 gacagaccca agtttgtccg cctctttctg gagaatgggt tgaacctacg gaagttttctc 1560
 acccatgatg tctcactga actcttctcc aacctctca gcacgcttgt gtaccggaat 1620
 ctgcagatcg ccaagaattc ctataatgat gccctctca cgtttgtctg gaaactgggt 1680
 gcgaacttcc gaagaggctt ccggaaggaa gacagaaatg gccgggacga gatggacata 1740
 gaactccacg acgtgtctcc tattactcgg caccctctgc aagctctctt catctgggcc 1800
 attcttcaga ataagaagga actctccaaa gtcatttggg agcagaccag gggctgcact 1860
 ctggcagccc tgggagccag caagctctctg aagactctgg ccaaagtga gaacgacatc 1920
 aatgctgctg gggagtccga ggagctgggt aatgagtacg agaccgggc tgttgagctg 1980
 ttcactgagt gttacagcag cgatgaagac ttggcagaac agctgctgggt ctattcctgt 2040
 gaagcttggg gtggaagcaa ctgtctggag ctggcggtgg agccacaga ccagcatttc 2100
 atcgcccgcc ctgggggtcca gaattttctt tctaagcaat ggtatggaga gattttccga 2160
 gacaccaaga actggaagat tatcctgtgt ctgtttatta tacccttgggt gggctgtggc 2220
 tttgtatcat ttaggaagaa acctgtcgac aagcacaaga agctgctttg gtactatgtg 2280
 gcgtttctca cctccccctt cgtggtcttc tctggaatg tggctctcta catcgcttc 2340
 ctctgctgt ttgcctacgt gctgctcatg gatttccatt cgggtccaca ccccccgag 2400
 ctggtcctgt actcgtgggt ctttgtcttc ttctgtgatg aagttagaca gtggtacgta 2460
 aatggggtga attattttac tgacctgtgg aatgtgatgg acacgctggg gcttttttac 2520
 ttcatagcag gaattgtatt tcggtctcac tcttctaata aaagctcttt gtattctgga 2580
 cgagtcattt tctgtctgga ctacattatt ttaactctaa gattgatcca catttttact 2640
 gtaagcagaa acttaggacc caagattata atgctgcaga ggatgctgat cgatgtgttc 2700
 ttcttctgt tctcttttgc ggwtggtatg gtggcctttg gcgtggccag gcaagggatc 2760
 cttaggcaga atgagcagcg ctggaggtgg atattcctgt cggctcatcta cgagccctac 2820
 ctggccatgt tcggccaggt gccagtgac gtggatggta ccacgtatga ctttgccac 2880
 tgcaccttca ctgggaatga gtccaagcca ctgtgtgtgg agctggatga gcacaacctg 2940
 ccccggttcc ccgagtggat caccatcccc ctggtgtgca tctacatgtt atccaccaac 3000
 atctgctgg tcaacctgct ggtcgccatg tttggctaca cgggtggcac cgtccaggag 3060
 aacaatgacc aggtctggaa gttccagagg tacttctgg tgaggagta ctgcagccgc 3120
 ctcaatatec ccttccccct catcgtcttc gcttaactct acatggtgggt gaagaagtgc 3180
 ttcaagtgtt gctgcaagga gaaaaacatg gagtcttctg tctgctgttt caaaaatgaa 3240
 gacaatgaga ctctggcatg ggagggtgtc atgaaggaaa actaccttgt caagatcaac 3300
 acaaaagcca acgacacctc agaggaaatg aggcacgat ttagacaact ggatacaaaag 3360
 cttaatgac tcaagggtct tctgaaagag attgctaata aaatcaaata aaactgtatg 3420
 aactctaatz gagaaaaatc taattatagc aagatcatat taagggaatgc tgatgaacaa 3480
 ttttgcatac gactactaaa tgagagattt tcagaccctt gggtagatgg tggatgattt 3540
 taaatcacc tagtgtgctg agaccttgag aataaagtgt gaagggcgaa ttctgcagat 3600
 atccatcaca ctggcggccg ctcgagcatg catctagag 3639

<210> 780

<211> 1095

<212> PRT

<213> Homo sapiens

<220>

<221> VARIANT

<222> (1)...(1095)

<223> Xaa = Any Amino Acid

<400> 780

Glu Lys Tyr Ile Ser Glu Arg Thr Ile Gln Asp Ser Asn Tyr Gly Gly
 275 280 285
 Lys Ile Pro Ile Val Cys Phe Ala Gln Gly Gly Gly Lys Glu Thr Leu
 290 295 300
 Lys Ala Ile Asn Thr Ser Ile Lys Asn Lys Ile Pro Cys Val Val Val
 305 310 315 320
 Glu Gly Ser Gly Gln Ile Ala Asp Val Ile Ala Ser Leu Val Glu Val
 325 330 335
 Glu Asp Ala Leu Thr Ser Ser Ala Val Lys Glu Lys Leu Val Arg Phe
 340 345 350
 Leu Pro Arg Thr Val Ser Arg Leu Pro Glu Glu Glu Thr Glu Ser Trp
 355 360 365
 Ile Lys Trp Leu Lys Glu Ile Leu Glu Cys Ser His Leu Leu Thr Val
 370 375 380
 Ile Lys Met Glu Glu Ala Gly Asp Glu Ile Val Ser Asn Ala Ile Ser
 385 390 395 400
 Tyr Ala Leu Tyr Lys Ala Phe Ser Thr Ser Glu Gln Asp Lys Asp Asn
 405 410 415
 Trp Asn Gly Gln Leu Lys Leu Leu Leu Glu Trp Asn Gln Leu Asp Leu
 420 425 430
 Ala Asn Asp Glu Ile Phe Thr Asn Asp Arg Arg Trp Glu Ser Ala Asp
 435 440 445
 Leu Gln Glu Val Met Phe Thr Ala Leu Ile Lys Asp Arg Pro Lys Phe
 450 455 460
 Val Arg Leu Phe Leu Glu Asn Gly Leu Asn Leu Arg Lys Phe Leu Thr
 465 470 475 480
 His Asp Val Leu Thr Glu Leu Phe Ser Asn His Phe Ser Thr Leu Val
 485 490 495
 Tyr Arg Asn Leu Gln Ile Ala Lys Asn Ser Tyr Asn Asp Ala Leu Leu
 500 505 510
 Thr Phe Val Trp Lys Leu Val Ala Asn Phe Arg Arg Gly Phe Arg Lys
 515 520 525
 Glu Asp Arg Asn Gly Arg Asp Glu Met Asp Ile Glu Leu His Asp Val
 530 535 540

006030-00000000

Tyr	Ser	Gly	Arg	Val	Ile	Phe	Cys	Leu	Asp	Tyr	Ile	Ile	Phe	Thr	Leu	
			820					825							830	
Arg	Leu	Ile	His	Ile	Phe	Thr	Val	Ser	Arg	Asn	Leu	Gly	Pro	Lys	Ile	
		835					840					845				
Ile	Met	Leu	Gln	Arg	Met	Leu	Ile	Asp	Val	Phe	Phe	Phe	Leu	Phe	Leu	
	850					855					860					
Phe	Ala	Xaa	Trp	Met	Val	Ala	Phe	Gly	Val	Ala	Arg	Gln	Gly	Ile	Leu	
865					870					875					880	
Arg	Gln	Asn	Glu	Gln	Arg	Trp	Arg	Trp	Ile	Phe	Arg	Ser	Val	Ile	Tyr	
				885					890					895		
Glu	Pro	Tyr	Leu	Ala	Met	Phe	Gly	Gln	Val	Pro	Ser	Asp	Val	Asp	Gly	
			900					905					910			
Thr	Thr	Tyr	Asp	Phe	Ala	His	Cys	Thr	Phe	Thr	Gly	Asn	Glu	Ser	Lys	
		915					920					925				
Pro	Leu	Cys	Val	Glu	Leu	Asp	Glu	His	Asn	Leu	Pro	Arg	Phe	Pro	Glu	
	930					935					940					
Trp	Ile	Thr	Ile	Pro	Leu	Val	Cys	Ile	Tyr	Met	Leu	Ser	Thr	Asn	Ile	
945					950					955					960	
Leu	Leu	Val	Asn	Leu	Leu	Val	Ala	Met	Phe	Gly	Tyr	Thr	Val	Gly	Thr	
				965					970					975		
Val	Gln	Glu	Asn	Asn	Asp	Gln	Val	Trp	Lys	Phe	Gln	Arg	Tyr	Phe	Leu	
			980					985					990			
Val	Gln	Glu	Tyr	Cys	Ser	Arg	Leu	Asn	Ile	Pro	Phe	Pro	Phe	Ile	Val	
		995					1000					1005				
Phe	Ala	Tyr	Phe	Tyr	Met	Val	Val	Lys	Lys	Cys	Phe	Lys	Cys	Cys	Cys	
	1010					1015					1020					
Lys	Glu	Lys	Asn	Met	Glu	Ser	Ser	Val	Cys	Cys	Phe	Lys	Asn	Glu	Asp	
1025					1030						1035				1040	
Asn	Glu	Thr	Leu	Ala	Trp	Glu	Gly	Val	Met	Lys	Glu	Asn	Tyr	Leu	Val	
				1045					1050						1055	
Lys	Ile	Asn	Thr	Lys	Ala	Asn	Asp	Thr	Ser	Glu	Glu	Met	Arg	His	Arg	
			1060					1065						1070		
Phe	Arg	Gln	Leu	Asp	Thr	Lys	Leu	Asn	Asp	Leu	Lys	Gly	Leu	Leu	Lys	
		1075					1080						1085			

```
<210> 786
<211> 45
<212> DNA
<213> Homo sapiens
```

[illegible]

<210> 793
 <211> 51
 <212> DNA
 <213> Homo sapiens

<400> 793
 tcgcagccct ggcaggcggc actgggcatg gaaaacgaat tggtctgctc g 51

<210> 794
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 794
 atcagcattg cttcgcagtg cctaccgcg gggaactctt gcctc 45

<210> 795
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 795
 tccgtgtccg agtctgacac catccggagc atcagcattg cttcg 45

<210> 796
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 796
 atcaagttgg acgaatccgt gtccgagttc gacaccatcc ggagc 45

<210> 797
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 797
 aacgacctca tgctcatcaa gttggacgaa tccgtgtccg agttc 45

<210> 798
 <211> 45
 <212> DNA
 <213> Homo sapiens

<400> 798
 agacccttgc tcgctaacga cctcatgctc atcaagttgg acgaa 45

<210> 799
 <211> 15

<212> PRT

<213> Homo sapiens

<400> 804

Leu Ser Ala Ala His Cys Phe Gln Asn Ser Tyr Thr Ile Gly Leu
5 10 15

<210> 805

<211> 15

<212> PRT

<213> Homo sapiens

<400> 805

His Pro Gln Trp Val Leu Ser Ala Ala His Cys Phe Gln Asn Ser
5 10 15

<210> 806

<211> 15

<212> PRT

<213> Homo sapiens

<400> 806

Ser Gly Val Leu Val His Pro Gln Trp Val Leu Ser Ala Ala His
5 10 15

<210> 807

<211> 15

<212> PRT

<213> Homo sapiens

<400> 807

Asn Glu Leu Phe Cys Ser Gly Val Leu Val His Pro Gln Trp Val
5 10 15

<210> 808

<211> 15

<212> PRT

<213> Homo sapiens

<400> 808

Ala Leu Val Met Glu Asn Glu Leu Phe Cys Ser Gly Val Leu Val
5 10 15

<210> 809

<211> 17

<212> PRT

<213> Homo sapiens

002150-646550

<400> 809

Ser Gln Pro Trp Gln Ala Ala Leu Val Met Glu Asn Glu Leu Phe Cys
 5 10 15

Ser

<210> 810

<211> 15

<212> PRT

<213> Homo sapiens

<400> 810

Ile Ser Ile Ala Ser Gln Cys Pro Thr Ala Gly Asn Ser Cys Leu
 5 10 15

<210> 811

<211> 15

<212> PRT

<213> Homo sapiens

<400> 811

Ser Val Ser Glu Ser Asp Thr Ile Arg Ser Ile Ser Ile Ala Ser
 5 10 15

<210> 812

<211> 15

<212> PRT

<213> Homo sapiens

<400> 812

Ile Lys Leu Asp Glu Ser Val Ser Glu Ser Asp Thr Ile Arg Ser
 5 10 15

<210> 813

<211> 15

<212> PRT

<213> Homo sapiens

<400> 813

Asn Asp Leu Met Leu Ile Lys Leu Asp Glu Ser Val Ser Glu Ser
 5 10 15

<210> 814

<211> 15

<212> PRT

<213> Homo sapiens

<400> 814

Arg Pro Leu Leu Ala Asn Asp Leu Met Leu Ile Lys Leu Asp Glu
5 10 15

00213016326560